National Testing Agency

Question Paper Name: 87 Computer Science and Applications 11th Nov 2020

Shift 2

Subject Name: 87 Computer Science and Applications

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87 Computer Science and Applications

Group Number:

Group 1d: 53622827

Group Maximum Duration:

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No
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No
Break time:

Group Marks:

300
Is this Group for Examiner?:

No

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Section 1d: 53622857

Section Number :

Section type: Online
Mandatory or Optional: Mandatory

Number of Questions:

Number of Questions to be attempted:

Section Marks:

Mark As Answered Required?:

Yes

Sub-Section Number:

Sub-Section Id: 536228167

Question Shuffling Allowed: Yes

Question Id: 5362284236 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group

Comprehension Questions: No Question Numbers: (1 to 5) Question Label; Comprehension



The Following table shows total number of students in the Department of the Institute along with percentage of Females and Male students. Answer questions 1 to 5 based on the data given below:

Department	Total No. of Students	Percentage of female	Percentage of Male
Computer	840	45	55
Civil	220	35	65
Mech.	900	23	77
Electrical	360	65	35
Electronics	450	44	56
Mining	540	40	60

Sub questions

Question Number: 1 Question Id: 5362284237 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

What is the respective ratio of the number of females in Mechanical Department to the number of females in Electronics Department?

(1) 4:3

(2) 23:22

(3) 24:21

(4) 23:21

Options:

53622816501, 1

53622816502, 2

53622816503.3

53622816504, 4

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Question Number: 2 Question Id: 5362284238 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks ; 2 Wrong Marks : 0

What is the total number of students in all the Departments?

(1) 2210

(2) 3210

(3) 3400

(4) 3310

Options:

53622816505. 1

53622816506. 2

53622816507.3

53622816508.4

Question Number: 3 Question 1d: 5362284239 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

What is the total number of male students in Computer and Mining Department together?

(1) 266

(2) 886

(3) 786

(4) 686



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Options:

53622816509, 1

53622816510, 2

53622816511.3

53622816512, 4



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Question Number: 4 Question Id: 5362284240 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

What is the ratio of the number of females in Civil and Electrical departments together to the number of males in the same Departments together?

(1) 311:270 329:261

411:469(3)

(4) 311:269

Options:

53622816513.1

53622816514. 2

53622816515.3

53622816516, 4

Question Number: 5 Question Id: 5362284241 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

What is the average percentage of female students in the whole Institute?

(1)42.0% (2) 41.0% Kumar Education

(3)43.0%

Options:

53622816517.1

53622816518. 2

53622816519.3

53622816520.4

Question Id: 5362284236 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group

Comprehension Questions: No Question Numbers : (1 to 5)

Question Label : Comprehension



निम्नोंकित लालिका में किसी संस्थान के विभागों में विद्यार्थियों की कुल मख्या छात्राओं और छात्रों के प्रतिशत के साथ दर्शाई गई है। नीचे दिए गए आकर्ड़ों के आधार पर प्रश्नों 1-5 के अत्तर दें :

विभाग	विद्यार्थियों की कुल संख्या	छात्राओं का प्रतिगत	छात्रों का प्रतिशत
केप्युटर	840	45	55
सिवित	220	35	65
मर्गिनिकल	900	23	77
इत्स्किट्कत्स	360	65	35
इलक्ट्रॉनिकस	450	44	56
मार्डानग	640	40	60

Sub questions

Question Number: 1 Question Id: 5362284237 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

मेकानिकल विभाग में छात्राओं की संख्या का इलेक्ट्रॉनिक्स विभाग में छाताओं की संख्या के साथ क्रिमक अनुपान क्या है?

(1) 4:3

(2) 23:22

(3) 24:21

(4) 23:21

Options:

53622816501.1

53622816502, 2

53622816503, 3

53622816504.4

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Question Number : 2 Question ld : 5362284238 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

सभी विभागों में विद्यार्थियों की कल संख्या कितनी है?

(1) 2210

(2) 3210

(3) 3400

(4) 3310

Options:

53622816505.1

53622816506. 2

53622816507. 3

53622816508, 4

Question Number: 3 Question Id: 5362284239 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No



कंप्यृटर और मार्डीनग विभाग को मिलाकर छात्रों की कुल संख्या कितर्ना है? 👤 Kumar Education

(1) 266

(2) 886 Downloaded FREE from KumarEdu.com

(3) 786

(4) 686

Options:

53622816509.1

53622816510. 2

53622816511.3

53622816512.4

Question Number: 4 Question Id: 5362284240 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks : 2 Wrong Marks : 0

सिविल और इलेक्ट्रिकल विभागों को मिलाकर छात्राओं की संख्या और उन्हीं विभागों को मिलाकर छात्रों की संख्या के बीच अनुपान क्या है?

(1) 311:270

(2) 329:261

(3) 411:469

(4) 311:269

Options:

53622816513, 1

53622816514. 2

53622816515.3

53622816516.4

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Question Number: 5 Question Id: 5362284241 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

पूरे संस्थान में छात्राओं का औसत प्रतिशत कितना है?

(1) 42.0%

(2) 41.0%

(3) 43.0%

(4) 41.5%

Options:

53622816517.1

53622816518-2

53622816519.3

53622816520.4

Sub-Section Number:

7.

Sub-Section Id:

536228168

Question Shuffling Allowed:

Yes

Question Number: 6 Question Id: 5362284242 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No



Which of the following teacher competency belongs to the domain of personality and attitude?

- (1) Locus of control and self-efficacy
- (2) Managing and Monitoring
- (3) Planning and instructing
- (4) Personalising and contextualizing

Options:

53622816521, 1

53622816522. 2

53622816523.3

53622816524. 4

Question Number: 6 Question Id: 5362284242 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

निम्न्स्लिखित में से कौन-कौन सी अध्यापक-प्रतीणता व्यक्तित्व और अधिवृत्ति के अनुध्य से संबंधित हैं?

(1) नियंत्रण और आत्य-सामध्यं की सस्थिति

(2) प्रवधन और अनुधवण

(3) नियोजन और अनुदेशन

(4) निजत्व और संदर्भीकरण

Options:

53622816521, 1

53622816522, 2

53622816523.3

53622816524.4

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Question Number: 7 Question Id: 5362284243 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Identify the teaching strategies which are employed during indirect instruction:

- (A) Emphasizing direct and indirect exemplars
- (B) Presenting the stimulus material
- (C) Inquiry based question-answer session
- (D) Presenting, asking and providing feed back
- (E) Promoting problem solving approach

Choose the correct answer from the options given below:

(1) (A), (B) and (C) only

(2) (B), (C) and (D) only

(3) (C), (D) and (E) only

(4) (A), (C) and (E) only

Options :

53622816525, 1

53622816526, 2

53622816527, 3

53622816528.4



Question Number: 7 Question Id: 5362284243 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

उन शिक्षण कार्यनीतियों की पहचान कीतिए जो अप्रत्यक्ष अनुदेश में अपनायाँ जाती है?

- प्रत्यक्ष और परोक्ष दृष्टांनों पर बत देना (A)
- उद्दीपन सामग्री ग्रस्तुत करना (B)
- पुछताक आधारित प्रश्न-उत्तर सञ (C)
- प्रस्तृतिकरण, प्रश्न पृद्धना एवं प्रतिपृष्टि प्रहान करना (D)
- (E) समस्या-समाधान उपागम को बढ़ावा देना

नीचे दिये गये विकल्पों में से सही उत्तर चुनिये :

केवल (A), (B) और (C)

(2) **कंबल** (B), (C) ओर (D)

केवल (C), (D) और (E) (3)

(4) केवल (A), (C) और (E)

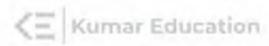
Options:

53622816525.1

53622816526. 2

53622816527, 3

53622816528, 4



Question Number: 8 Question Id: 5362284244 Question Type: MCQ Option Shuffling: No Is Question Mandatory : No.

Correct Marks ; 2 Wrong Marks ; 0

In which level of teaching, the teacher's role is more active rather than being interactive?

Memory level (1)

(2) Understanding level

Reflective level (3)

Autonomous development level

Options:

53622816529. 1

53622816530. 2

53622816531.3

53622816532, 4

Question Number: 8 Question 1d: 5362284244 Question Type: MCQ Option Shuffling: No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

शिक्षण के कौन-संस्तर पर, अध्यापक की भूमिका अन्ता क्रियात्मक हाने के बाजाय आधिक संक्रिय होती है े

(1) स्मृति स्तर (2)अवबाध स्तर

विमानी-चितन स्तर (8)

स्वायन विकास स्तर (4)

Options:



Question Number: 9 Question Id: 5362284245 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Match List I with List II:

-				-
- 1		CF	+	- 1
	13.	æ	5.0	- 10

(Scales of measurement)

- (A) Nominal
- (B) Ordinal
- (C) Interval
- (D) Ratio

Last II

(Description of properties)

- (I) Classification and order
- (II) Classification
- (HI) Classification, order and equal units
- (IV) Classification, order, equal units and Absolute Zero

Choose the correct answer from the options given below:

- (1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)



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Options :

53622816533. 1

53622816534. 2

53622816535.3

53622816536. 4

Question Number: 9 Question Id: 5362284245 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No.

सृची-I को सृची-II के साथ सुमेलित कीजिए ।

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सची-Ш

(विसंपताओं का चित्रण)

) वर्गोकरण और क्रम

(II) वर्गोकाण

(D)

- (III) वर्गीकरण क्रम और इकाइयों की समानवा
- (IV) वर्णीकरण, क्रम, इकाइयाँ की समानता और निरपेक्ष शुन्य

सूची-I

(माप का पैमाना)

(A) नामित

(B) क्रमिक

(C) अनसल

(D) अनुपान

नीचे दिये गये विकल्पों में से सही उत्तर चुनिए :

(1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

(2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

(3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

(4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options:

53622816533. 1

53622816534, 2

53622816535, 3

53622816536, 4

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Question Number: 10 Question Id: 5362284246 Question Type: MCQ Option Shuffling: No Is Question Mandatory: No

Correct Marks ; 2 Wrong Marks : 0

Given below are two statements:

Statement I: Indirect instruction is an approach to teaching and learning in which the process is inquiry, the content involves concept and the context is a problem.

Statement II: In NRT test data tell us about a student's level of proficiency in mastery of some skills or set of skills.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622816537-1

53622816538. 2



Question Number: 10 Question Id: 5362284246 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

नीचे दो कथन दिए गए है :

कथन (I) : अफ़रबक्ष अनुदेशन शिक्षण और अधिगम कर यह उपराम है जिसमें प्रक्रिया पृछताछ है, विषय−यस्तु सफ़रबय आधारित है और संदर्भ कोई समस्या होती है।

कथन (II) : मानक संदर्भित परीक्षण में, परीक्षण के प्रदत्त विद्यार्थी की किसी प्रवीणता मा प्रवीणता समुच्चय पर अर्जित अधिकार संबंधी दक्षता के स्तर बनाते हैं।

उपर्युक्त कथनों के आलोक में निम्नांकित विकल्पों में से मही उत्तर चुने :

- (1) कथन I और II दोनों सही हैं ।
- (2) कथन I और II दोनों गलत हैं।
- (3) कथन I सत्य है कितु कथन II गलत है।
- (4) कथन I असत्य है कितु कथन II मही है।

Options:

53622816537. 1

53622816538. 2

53622816539.3

53622816540. 4



Question Number : I1 Question Id : 5362284247 Question Type : MCQ Option Shuffling : No Is Question
Mandatory : No

Correct Marks : 2 Wrong Marks : 0

In which of the following, there is a greater flexibility in both the methods and process of research?

- (1) Ethnography and phenomenology
- (2) Descriptive survey and impact studies
- (3) Experimental and observation based studies
- (4) Expost facto and historical studies

Options:

53622816541. 1

53622816542 2

53622816543, 3

53622816544. 4

Question Number: 11 Question Id: 5362284247 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No



ानम्बर्गारहन म किसम शाध की विधिया एवं गोक्रया म अपकायत अधिक नेप्यसाल स्वीत्वापनी पार्ड जानी हैं? रजानीय एवं इस्राज्यानक अध्ययर (1) वणनात्मक सर्वेक्षण तथा प्रभाव अध्ययन (2) प्रयागात्मक एव प्रक्षण आधारित अध्ययन (3)कार्योत्तर एव एनिहासिक अध्ययन (4) Options: 53622816541 . 53622816542 2 53622816543 3 53622816544 4 Question Number 12 Question Id 5362284248 Question Type MCQ Option Shuffling No Is Question Mandatary ; No. Correct Marks : 2 Wrong Marks : 0 In conducting an empirical study a researcher employs a non-parametric test for data analysis and finds that the 'statistics arrived at is a gnificant' at 05 level. What decisions will be warranted thereafter? (A) Rejecting the Null hypothesis (Ho) (B) Accepting the Null hypothesis (H₀) (C) Accepting the alternate hypothesis (H.) (D) Keeping the decision in abeyance (E) Rejecting the alternate hypothesis (H_s) Choose the correct answer from the options given below

(1)(A) and (B) only (2)(B) and (C) only

(3) (D) only (4) (A) and (C) only

Options:

53622816545 ...

53622816546 2

53622816547 3

53622816548 4

Question Number 12 Question Id : 5362284248 Question Type : MCQ Option Shuffling No Is Question Mandatary . No.

एक विन्द्रयादभावक स्थाप के तहत राध्यकनां एटन विरान्त्यण हत् अपर्गामानिक प्रतिक्षण का अन्यानंग करता है तथा वह पाठा है कि 'अस्थेणन साहित्यकी का मान 05 स्ता पर साधक वे इसक बाट रसे किय तरह का विशेष इस आवार पर करत क्राहित्य?

- (A) नकागतम्क श्रन्य परिकल्पना का (H₀) का परिहास
- (B) शृन्य परिकल्पना (H₀) को स्वीकार करना
- (C) विकल्पात्मक परिकल्पना (H₁) को स्वीकार करना
- (D) निणंध को स्थान में रखना
- (E) विकल्पात्मक परिकल्पना (H₁) का परिहार

नीच दिस गय विकल्या म से सही उत्तर चुनियं

कवल (A) और (B)

(2) कवल (B) और (C)

(3) - कवल (D))

(4) - 하려면 (A) 해변 (C)

Options:

53622816545 .

53622816546 2

53622816547 3

53622816548 4

Question Number , 13 Question Id , 5362284249 Question Type , MCQ Option Shuffling , No Is Question Mandatory ; No

Which of the following are non-probability sampling methods?

- (A) Cluster sampling
- (B) Judgemental sampling
- (C) Systematic sampling
- (D) Snowball sampling
- (E) Quota samp.ing

Choose the correct answer from the options given below

(1) (A), (B) and (C) only

(2) (B), (D) and (E) only

(3) (B), (C) and (D) only

(4) (C), (D) and (E) only

Options:

53622816549 .

53622816550. 2

53622816551 3

53622816552 4

Question Number $^\circ$ 13 Question Id = 5362284249 Question Type . MCQ Option Shuffling No Is Question Mandatory No

निम्नात्नांखत में से कोनमी गेर मधाव्यता प्रानदर्श प्रात्तवयन विधि है।

- (A) गुच्छ प्रांतचयन
- (B) व्यापय आधारिन प्रतिचयन
- (C) व्यवस्थित पानचयन
- (D) দোৱাল গালব্ৰন
- (E) क्षान्पर्णतक पातचयन

र्माचं दियं गयं विकल्पां में सं सही उत्तर चृत्तिय

केवल (A), (B) और (C)

(?, कंबल (B), (D) और (E)

(3) **화**적여 (B), (C) **최**基 (D)

(4) कंबल (C), (D) और (E)

Options:

53622816549 .

53622816550 2

53622816551 3

53622816552 4

Question Number 14 Question Id 5362284250 Question Type MCQ Option Shuffling No Is Question Mandatory No

Given below are two statements. One is labelled as Assertion. A land the other is labelled as Reason (R)

Assert on (A.——In order to bridge the gap between theory and practice both fundamental and applied research formats have to be promoted.

Reason (R) Fundamental research focuses on theory making and applied research is directed at exploring the applicability of theory in varied practical situations.

In the light of the above statements, choose the most appropriate answer from the options given below

- (1 Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are correct but (R) is NOT the correct explanation of A,
- (3) (A) is correct but (R) is not correct
- (4) (A) is not correct but (R) is correct

Options:

53622816553 .

53622816554 2

53622816555 3

53622816556 4

Question Number : 14 Question Id 5362284250 Question Type : MCQ Option Shuffling No Is Question Mandatory No

नोचे हो कदान दिए पण 🍧 एक को अधिकयन (A) और दूसरे को तर्क (R)फहें। हिमा 🤻

अभिकश्चन (A) - मिद्धान श्रंग व्यवहार के बीच अनर प्राप्त के लिए आध्यसभून एवं व्यवहार साथ ताना स्वयंत्रण का प्रोत्साहर दुंगा आवश्यक है

नकं (R) अ आरभूत गांध सिद्धान निर्माण पर ध्यान किन्द्रत करता है और व्यवहरूत गांध पत्यक्ष रूप स विविध व्यावहारिक स्थितियाँ में सिद्धान की प्रयाज्यता पर लक्षित होता है

उपयंक्त कथर्नो क अञ्चल में निम्नाकित विकल्या में स मही उपबुक्त उन्तर चुने

- (A) और (R) ताना मही हैं और (R), (A) की सही व्याख्या है।
- (2) (A) और (R) दोना सही है घरन्द (R), (A) की सही व्याख्या नहीं है।
- (3) (A) सही है पान्न (R) सही नहीं है।
- (4) (A) सती नहीं है परन्त (R) मही है।

Options :

53622816553 1

53622816554 2

53622816555 3

53622816556. 4

Question Number $^\circ$ 15 Question Id $^\circ$ 5362284251 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory $^\circ$ No

Given below are two statements.

Statement I. Qualitative research is an imbrella term to refer to various research strategies that share certain characteristics. The data collected have been termed 'soft' i.e. rich in description.

Statement II Quantitative research is mainly hypothetico deductive and employs inostly statistical techniques for data analysis.

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622816557 1

53622816558 2

53622816559 3

53622816560. 4

Question Number: 15 Question Id 5362284251 Question Type . MCQ Option Shuffling . No Is Question

Mandatory : No.

नाच दा कश्चन दिव गए ह

- कथन (I) प्रणानापस्क पांध एकत्यापक पद है, जिसका तत्त्वर्य समितिया घाध स्पर्मितया में है, जा कि ही सिश्यानाओं का माझ करनी है सम्रोहन पहला का अंगर समितिया गया है अर्थान व विवस्त्य में पून्स हाती है
- कथन II) परिमणात्मक आध एम्खन परिकत्यनात्मक निगमनात्मक प्रवृतन का हाना है तथा प्रदन विश्वापण हत्। अधिकता सान्ध्यिकीय विधिया का अनुप्रयोग काता है।

उपर्युक्त कथनों के आलाक में निम्नांकित विकल्पां में स सर्वाधिक उपयुक्त उत्तर चुनें

- (1) कथन I और II वार्ना सदी हैं ।
- (2) अध्यन I और II दोनों सही नहीं हैं
 - (S) कथन I सन्य है किन् कथन II यलत है
- (4) कथन 1 असन्य हैं, कित् कथन 11 सदी है।

Options:

53622816557 .

53622816558 2

53622816559 3

53622816560 4

Question Number $^\circ$ 16 Question Id $^\circ$ 5362284252 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Which of the following is considered as an effective form of verbal communication?

(1) Story telling

(2) Sloganeering

(3) Use of high pitch of voice

(4) Monologues

Options:

53622816561 .

53622816562 2

53622816563 3

53622816564 4

Question Number , 16 Question Id , 5362284252 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

निम्नित्र्वित	में	सं किस	मीरित्रक	सम्बक्षण	का प्रभावी	रूप माना	जाना है /
		4 11-01	17.12	41 A 41 B	Let 74 . 1 . 1 . 1	. , 4, 44	-1. 1. 17

(1) कहानी सुनाना

(2) नारे लगाना

(3) ध्वनि के उच्च स्वर का प्रयोग

(4) एकालाप

Options:

53622816561 .

53622816562 2

53622816563 3

53622816564 4

Question Number 17 Question Id - 5362284253 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks : 2 Wrong Marks : 0

Which of the following are useful in positive components of classroom communication?

- (A) Restrict ve actions
- (B) Empathy
- (C) Punctuality
- (D) Follow up
- (E) Scattered reflections

Choose the most appropriate answer from the options given be aw .

(1) (A), (B), (C) only

(2) (B), (C), (D) only

(3) (C), (D), (E) only

(4) (A), (D), (E) only

Options:

53622816565 .

53622816566 2

53622816567 3

53622816568 4

Question Number $\,$ 17 Question Id $\,$ 5362284253 Question Type $\,$ MCQ Option Shuffling $\,$ No is Question Mandatory $\,$ No

कक्षा सम्प्रपण के सकामत्मक एउना म जिस्सालखुर में में कीर से उपयोगी हैं। प्रतिबधात्मय । प्रयाण 14 न रुन् भूर्गन 1B समर्थानप्रा (C) $_{1}D$ अनवर्गन प्रसम्ति विपर्श (E) र्नाचं दिय गये विकल्पा में से मही उत्तर चीनय (1)कंवल (A), (B) ओर (C) (2) **화**君ल (B), (C) 최보 (D) कंदाल (C), (D) और (E) (4) **毒**原何(A), (D) 新草(E) (3) Options: 53622816565 1 53622816566 2 53622816567 3 53622816568 4 Question Number , 18 Question Id : 5362284254 Question Type , MCQ Option Shuffling No Is Question Mandatory : No Correct Marks ; 2 Wrong Marks : 0 Given below are two statements Interactive and multimedia systems provide for a new culture of teaching Statement I and learning. Virtua, classrooms convert students into senseless humanoids Statement II In the light of the above statements, choose the correct answer from the options given below Both Statement I and Statement II are true (1)Both Statement I and Statement II are false (2)Statement I is correct but Statement II is false (3) Statement I is incorrect but Statement II is true (4)

Options: 53622816569 ...

53622816570 2 53622816571 3 53622816572 4

Question Number: 18 Question Id 5362284254 Question Type MCQ Option Shuffling No Is Question Mandatory: No

Correct Marks , 2 Wrong Marks ; 0

रीचं दो कथन दिए गए हैं

कथन (I) - अन्यान्यक्रिया तथा मर्ल्यामीडिया पणान्ती चिक्षण एव अधिगम की रई गम्कृति की त्यवस्था काती है

कथन (II) - आभामी कक्षण दिखा। ह्या का भावनावित्ति मानव क रूप म प्रांत्वानैन ऋगी है

उपयेवत कथनों क आलाक में निम्नाफित विफल्पों में से सही जर चन

- कथन I और II दोनां मही है
- (2) कथन I और II टोना गलत हैं ।
- (3) कथन I सत्य है कित् कथन II गलत है
- (4) कथन I असल्य है कित् कथन II सही है।

Options:

53622816569 .

53622816570. 2

53622816571 3

53622816572 4

Question Number • 19 Question Id • 5362284255 Question Type • MCQ Option Shuffling No Is Question Mandatory • No

Identifying the sequence of stages of message processing

- (A) Action
- (B) Internalisation
- (C) Selection
- (D) Understanding
- (E) Perception.

Choose the correct answer from the options given below.

(1) (A) (B) (D), (E), (C)

(2) (B), (C), (A), (D), (E)

(3) (D), (E) (B) (A) (C)

(4) (E), (D), (C), (B), (A)

Options:

53622816573 1

53622816574 2

53622816575 3

53622816576. 4

सदंश प्रक्रिया के चरणा के क्रम की पहचान कींजिए

- (A) द्विस्था
- (B) आध्यतमेकरण
- (**C**') चयन
- (D) समझना
- (E) अवब्रधन

र्शन दिए एए विकल्पों में से सही उत्तर न्हींनमं

(1) (A), (B), (D), (E), (C)

(2) $(B, (C), (A), (D_i, E)$

(3) (D), (E), (B), (A), (C)

(4) (E), (D), (C), (B,, (A,

Options:

53622816573. .

53622816574 2

53622816575 3

53622816576. 4

Question Number 20 Question Id 5362284256 Question Type MCQ Option Shuffling . No Is Question Mandatory No

Newspaper

Socia, Media

Multa media

Radio and television

List I

(Medium

Liet II

(Example for description)

- (I) Networking
- (II) Audio, Video and graphics
- (III) Broadsheet
- (IV) Broadcasting

Choose the correct answer from the options given below

- (1) (A) (III), (B) (IV), (C, (I), (D)-(II)
- (2) (A) (IV), (B) I), (C) (II), (D) (III)
- (S) (A) (I), (B) (II) (C) (III), (D) (IV)
- (4) A) (II), (B) (III) (C) (IV), (D) (I)

Options :

(A)

(B)

1C)

(D)

53622816577 .

53622816578, 2

51622816579 3

53622816580 4

Question Number • 20 Question Id • 5362284256 Question Type • MCQ Option Shuffling • No is Question Mandatory No

सुची 🗓

, माध्यम्)

सुची Ш

(विकरण का उदाहरण)

- (A) समाचार पत्र
- (B) र्राङ्या एव इंग्डर्शन
- (C) सामाजिक मीडिया
- (D) मल्टी मीडिया

- (I) नेस्वर्किंगः
- (II) अवण, दृश्य नधा छापा चित्र
- (III) ब्राइशीर
- (IV) प्रसारण

निर्म्मालिखन विकल्यों में से सही उत्तर चीवए

- (1) (A)-(III), (B)-(IV), (C) (I), (D) (II)
- (2) (A) (IV), (B) (I), (C) (II), (D) (III)
- (3) (A) (I), (B) (II) (C) (III), (D) (IV)
- (4) (A) (II), (B) (III), (C) (IV), (D) (I)

Options:

53622816577

53622816578 2

53622816579 3

53622816580. 4

Question Number , 21 Question 1d -5362284257 Question Type , MCQ Option Shuffling -No Is Question Mandatory +No

In a park A. B. C. D. E and F are sitting. C is the brother of D s husband and son of A. F is the daughter of D and sister of E.

- (A) E is the grandson of A
- (B) F is the daughter of C
- (C) B is the father of F
- (D) There are one son and one daughter in the group
- (E) C is the uncle of E

Choose the correct answer from the options given below,

(1) (A), (B) and C) only

(2) (A), (C) and (E) only

(3) (B), (D) and (E) only

(4) (B) (C) and (D) only

Options:

53622816581 1

53622816582 2

53622816583 3

53622816584 4

Question Number , 21 Question Id 5362284257 Question Type , MCQ Option Shuffling , No Is Question Mandatory ^a No

एक पार्क में A, B. C, D, E और F बैठ हैं C, D के पित का भाई है अप्र-A का पुत्र है। ऐं, D की प्री कै तथा È की बहर है.

- (A) E. A का पीत्र है
- (B) F, C की पूर्व है
- (C) B. F का पिता है
- (D) समझ में एक पत्र और एक प्रती है
- (E) C, E का चाचा (uncle) #

नीच दिये गयं विकल्पा में स सही उत्तर चुनिय

(1) कंबल (A), (B) और (C)

(2) कंवत (A) (C) और (E)

(3) केवल (B). (D) প্রান (E)

(4) कवल (B), (C) और (D)

Options :

51622816581

53622816582 2

53622816583 3

53622816584. 4

Question Number • 22 Question Id : 5362284258 Question Type • MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

The ratio of ages of two persons A and B is 3 4 and that of ages of B and C is 4 5 If the average of all three is 40 years, what is B's age?

(1) 20 years

(2) 30 years

(3) 40 years

(4) 50 years

Options:

53622816585 .

53622816586 2

53622816587 3

53622816588 4

Question Number * 22 Question Id 5362284258 Question Type MCQ Option Shuffling No Is Question Mandatory No

द्रा व्यक्तिय A मोर B की अप्यु कर अनुपन्त A के भीर B निधा C की आयु का भनुपान A के है बिट तीनों की भीमन आयु A0 वर्ष हो तो B की अगय कितनी है ?

(1) 20 वर्ष

(2) 30 বর্ষ

(3) 40 वर्ष

(4) 50 ad

Options:

53622816585 .

53622816586 2

53622816587 3

53622816588, 4

Question Number: 23 Question Id. 5362284259 Question Type: MCQ Option Shuffling: No Is Question Mandatory: No

Correct Marks . 2 Wrong Marks : 0

If some pens are pencils but no pencil is sharpener then

- (A) All pencils are pens
- (B) Some sharpeners are pencils
- C) Some pens are not sharpener.
- (D) Some pencils are not pens

Choose the correct answer from the options given below,

(1) (A) and (C) only

(2) (B) and (C) only

(3) (A) and (D) only

(4) (B. and (D) only

Options:

53622816589 .

53622816590. 2

53622816591 3

53622816592 4

Question Number · 23 Question Id · 5362284259 Question Type · MCQ Option Shuffling No Is Question Mandatory No

आद् क्	ळ पैन पीमल हैं परन्त कांड पीमल इ	गार्पनर नहीं है तब		
(A)	मधी पेसिल पैन हैं			
(B)	कछ शापनर पैमिन् ई			
C_{I}	इन्छ पैन आर्पनर नहीं हैं			
(D)	कुछ पैसिलं पैन नहीं है			
र्माचं नि	द्वे सब विकल्पां में स मही उत्तर ची	नग्र		
(1)	कवल (A) और (C)	(2)	कंवल (B) और (C)	
(3)	कंवल (A) और (D)	(4)	कंबल (B) और (D)	
536228				
Manda Correc	on Number 24 Question Id is story . No if Marks : 2 Wrung Marks : 0 100 meters race A beat B :			
(1)	5 Km/h	(2)	10 Km/h	
(3)	15 Km/h.	(4)	20 Km/h	
536228 536228	816593 . 816594 2 816595 3 816596. 4			
Manda Correc	on Number : 24 Question Id : : :Sory No :t Marks : 2 Wrong Marks : 0 रिटर की एक दौड़ में, A ने B को 1			No Is Question
100.	ાંદર વગ લ્વા ધાંટ વ, Ω 1 છે વગ 1	ए न ाइर मा ठानकान स स	िला 💯 तम नामी कर्नी १५	
(1)	ð किमी ⁄घटा	(2)	10 कि मी /घरा	
(3)	15 कि मी /घटा	(4)	20 कि मी./घरा	
	s: 816593 . 816594. 2			

53622816595-3	
53622816596 4	
Question Number · 25 Question Id . 53622842 Mandatory , No Correct Marks : 2 Wrong Marks : 0	261 Question Type MCQ Option Shuffling No Is Question
Three pipes fill a tank in 4 hours. If tw	wo of them take 8 and 12 hours each to fill the tank
how many hours will the third pipe take	e to fill the tank"
(1) 6 hours	(2) 15 hours
(3) 18 hours	(4) 24 hours
	261 Question Type · MCQ Option Shuffling · No Is Question
Mandatory No Correct Marks: 2 Wrong Marks: 0	
र्तान एइप एक रकी को 4 वट म भग सकत है। योट	ं रनम संद्रापाइय प्रत्यक हकी का भग्न सं8 और 12 वह का समय रूत
हैं तो तीसर पाइप को उकी भग्न में किनने घर का स	हमय लगंगा?
(1) 6 घर	(2) 16 電
(3) 18 घटे	(4) 24 घंटे
Options: 53622816597 . 53622816598. 2 53622816599 3 53622816600 4	
Question Number · 26 Question Id . 53622842 Mandatory , No Correct Marks : 2 Wrong Marks : 0	262 Question Type MCQ Option Shuffling No Is Question
	not accepted <u>anumāna</u> (inference) as a valid source of
	-

Which one of the following schools has not accepted anumana (inference) as a valid source of knowledge?

(1) Advarta Vedānta

(2) Visistādvarta

(3) Chārvāka

(4) Sānkhya

Options:

53622816601 .

53622816602 2

53622816603 3

Question Number : 26 Question Id : 5362284262 Question Type . MCQ Option Shuffling . No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

निम्नोलिखन में में कीन में मम्प्रदार ने अनम्बन का एक जन के सान के सार में स्वीक्रय नहीं किया है?

विद्वानन्त्रः

(2) विशिष्टाहेन

13) चावांक

(4) माग्रव्य

Options:

53622816601

53622816602 2

53622816603 3

53622816604 4

Question Number 27 Question Id 5362284263 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks • 2 Wrong Marks • 0

Given below are two statements. One is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): Substance is always the subject of all predicates

Reason (R) · Substance is self-existent and self-conceived.

In the light of the above statements, choose the correct answer from the options given below

- Both (A) and (R) are true and (R) is the correct explanation of (A.
- (2) Both (A) and R) are true but (R, 14 NOT the correct explanation of (A)
 - (S) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options:

51622816605 .

53622816606. 2

53622816607 3

53622816608. 4

Question Number : 27 Question Id : 5362284263 Question Type : MCQ Option Shuffling : No is Question

Mandatory · No.

Correct Marks: 2 Wrong Marks: 0

नीव हा कथन हिए गए है जिसमाएक का ऑभकथन (A, और दूसर का नव √R कहा प्रशाह

आभिकथन (A) : परार्थ सदेव सभी विधवा का विषय है।

नर्क (R) · पटार्थ स्वत विद्यमान एव स्वत विचारित होता है

उपयंक्त कथना क आलाक म निम्नांकित विकल्पा में स सन्नी उत्तर दुने :

- (A) और (R) दानां सही हैं और (R), (A) की सही व्याख्या है।
- (2) (A) और (R) दांनां सही हैं घरन्तु (R), (A) की सही व्याकृषा नहीं है
- (3) (A) सही है परन्तु (R) सही नहीं है —
- (4) (A) सही नहीं है परना (R) सही है

Options:

53622816605 .

53622816606. 2

53622816607 3

53622816608. 4

Question Number -28 Question Id . 5362284264 Question Type -MCQ Option Shuffling -No is Question Mandatory +No

Given below are two Statements

'The water of the pond is muddy. It must have rained last night.

What kind of Anumana (inference has been used in the above statements. Choose the correct option from the following:

- (A) S'esavat anumāna
- (B) Comparison
- (C) Pūrvovat anumāna
- (D) Both (A) and (B)

Choose the most appropriate answer from the options given below

(1) (A) only

(2) (B) only

(3) (C) only

(4) (D) only

Options:

53622816609 .

536228166 0.2

536228166... 3

536228166.2 4

Question Number • 28 Question Id : 5362284264 Question Type • MCQ Option Shuffling • No Is Question Mandatory No

ਜੀਚ ਨਾਂ ਲਹਜ ਨਿਸ਼ ਸਦ ਹੈ 'तालाब का पानी पटमेला है। विगत रात अवश्य बरमात हुई होगी'। खगदन क्षमा म किस एकार के भन्मान का प्रयोग क्रिया गया है। ज़िमांकायित म म मही विकल्प चलिए (A) श्वयत् अनुमान (B) नलना (Ch प्रकृत अनुमार (D) (A) एव (B) टान[†] नीच दिय गय विकल्पों में से सही उत्तर चांनयं (1)(2)कवल (A) কবল (B) (4)(3)कंबल (C) कंवल (D) Options: 53622816609 . 536228166 0 2 536228166... 3 53622816612 4 Question Number: 29 Question 1d 5362284265 Question Type MCQ Option Shuffling No Is Question Mandatory · No Correct Marks . 2 Wrong Marks : 0 Match Last I with Last II Last I Last II (Philosophical doctrines) (Philosophical schools) (A) Syādavāda (I) Nyāya Anupalabdm (II) Buddhism (B) (III) Vedānta (C) Apoha (D) Abhāva (IV) Ja.nism Choose the correct answer from the options given below (1)(A) (II), (B)-(IV), (C)-(III), (D)-(I) (2) (A) (IV) (B) (III), (C) (II), (D) (I)

(3)

(4)

(A) (I), (B)- II), (C) (IV), (D) (III) (A) (III), (B)-(I), (C) (II), (D)-(IV)

Options: 536228166.3 . 536228166 4 2 536228166.5 3 53622816616. 4 Question Number: 29 Question Id 5362284265 Question Type MCQ Option Shuffling: No Is Question Mandatory No. Correct Marks . 2 Wrong Marks : 0 सदी I को सदी II के साथ समीलत की जिए मुर्चा I सर्चा II श्रामानक (स्ट्रहाजा , राजीपक जिल्लामधारा Œ न्याय (A) स्यादवाद (II) बौद्ध दर्शन अनपर्लाड्ड (B) (C) अपह .III) वंदाना (IV) जैन दर्शन (D) अभाव नीचं दियं गयं विकन्या में स सही उत्तर चनिए (1) (A)-(II), (B)-(IV), (C)-(III)-(D)-(I) (2)(A)-(IV), (B -(III), (C)-(II) (D) (I (3)(A)-(I), (B)-(II), (C)-(IV), (D)-(III) (4) $(A) \cdot (III), (B) \cdot (I), (C) \cdot (II), (D) \cdot (IV)$ Options: 536228166.3 . 536228166.4 2 53622816615 3 536228166 6 4 Question Number 30 Question Id 5362284266 Question Type MCQ Option Shuffling No Is Question Mandatory No. Correct Marks: 2 Wrong Marks: 0 Which one of the following pramanas has been accepted in Buddhism? (1)Arthapatta (2)Anupalabdh.

(3) Sabda

(4) Pratyaksha

Options:

536228166.7 .

536228166.8 2

53622816619 3

53622816620 4

Question Number 30 Question Id 5362284266 Question Type MCQ Option Shuffling No Is Question Mandatory , No

बोद्ध मन	द्वारा निम्नलिखित में से व	हौन सं प्रमाण को स्वीकार किया	ц	मुखा है ?	
(1)	अर्थापति	(2)		্রান্ য ্রতির	
(3)	गप्रद	(4)		प्रत्यक्ष	
Options	:				
5362281					
5362281	66.8. 2				
5362281	66.9 3				
5362281	6620 4				
Mandat	n Number † 31 Questi ary ; No Marks : 2 Wrong Ma		b	on Type ' MCQ Option Shuffling ' No Is Questin	b
A type	e of memory that h	olds the computer starty	ıp	ip routine is	
(1)	Cache	(2))) RAM	
(3)	DRAM	(4))) ROM	
Options	. ‡				
5362281	6621				
5362281	6h2Z ?				
5362281	6623 3				
5362281	6624 4				
	n Number 31 Questi ory : No	on Id 5362284267 Questio	ก	on Type · MCQ Option Shuffling : No ls Questio	D
	Marks: 2 Wrong Ma	rks:0			
ममार्रा	काबहप्रकारकौनसाई	ते, जा कम्प्यूटर स्टाइंअप को नैति	यद	यक रखता है	
(1)	Cache	,5	21	Z) RAM	
(3)	DRAM			4) ROM	
Options	-				
5362281					
5362281	6622 2				
5362281	6623 3				
5362281	6h24 4				
	n Number · 32 Questi ory · No	ion Id · 5362284268 Questio	n	on Type · MCQ Option Shuffling · No Is Questio	D.
Correct	Marks: 2 Wrong Ma	irks : 0			

Cloud computing has the following distinct characteristics-

- (A) The service is hosted on the internet
- (B) It is made available by a service provider
- (C) It computes and predicts rain when the weather is cloudy
- (D) The service is fully managed by the provider

Choose the correct answer from the options given below

(1) (A), (B) only

(2) (A), (B). (C) only

(3) (A), (D) only

(4) (A), (B), (D) only

Options:

53622816625 1

53622816626. 2

53622816627 3

53622816628 4

Question Number $^\circ$ 32 Question Id $^\circ$ 5362284268 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory $^\circ$ No

Correct Marks: 2 Wrong Marks: 0

क्लाउड कम्प्यूटिंग की निम्नांलिखित में सं कौनसी विशिष्ट विशेषनाए हैं?

- (A) यह सवा स्टरनट पर प्रटान की जानी है
- (B) यह संवाः प्रदाता कं द्वारा उपलब्ध कराई त्राती है।
- (C) इस मौसम मंघाछन्न हां तां यह परिकलित कर वर्षों की भविष्यवाणी करना है
- (D) प्रवाना द्वारा इस सवा का पूर्णरूपंत्र प्रबधन किया जाना है।

तीच दिय गय विकल्पां म स सही उत्तर चूर्निय

(1) केवल (A), (B)

(2) **本**वल (A), (B), (C)

(3) 中国司 (A), (D)

(4) केवल (A), (B), (D)

Options:

53622816625 .

53622816626. 2

53622816627 3

53622816628 4

Question Number : 33 Question Id : 5362284269 Question Type : MCQ Option Shuffling : No Is Question

Mandatory · No. Correct Marks: 2 Wrong Marks: 0 A firewall is a software tool that protects (A) Server (B) Network (C) Fire (D) Individual Computer Choose the correct answer from the options given below (A), (C) only (2) (B), (C) only (3)(A), (B), (C) only (4) (A), (B), (D) only Options -53622816629 . 53622816630. 2 53622816631 3 53622816632 4 Question Number 133 Question Id 15362284269 Question Type MCQ Option Shuffling No Is Question Mandatory No. Correct Marks: 2 Wrong Marks. 0 पायावॉल एक सांपटवंबर टल है, जो निम्नलिखिन में से किसकी एशा काती।हैं।" (A) सर्वग रत्य व्यक्त (B) (C) फायर (D) वैद्यक्तिक कम्प्यटर नीच दियं गय विकल्यां में से सही उत्तर चनियं (1)(2) **कं**वल (**B**), (**C**) कंवल (A), (C) (8) केवल (A). (B) (C) (4) **कवल** (A), (B), (D)

Question Number 34 Question Id 5362284270 Question Type MCQ Option Shuffling No Is Question Mandatory No

Options: 53622816629 . 53622816630 2 53622816631 3 53622816632 4

Correct Marks * 2 Wrong Marks : 0

The word blog is derived from the word

(1) My log

(2) We blog

(3) E blog

(4) Blogger

Options:

53622816633 ...

53622816634 2

53622816635 3

53622816636 4

Question Number 34 Question Id 5362284270 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

'डलाग अडट निम्नलिखित में से किस अडट स प्राप्त किया गया है

वाई नाग

(2) बी ब्लाग

(3) इं ब्लॉग

(4) छलाँगर

Options:

53622816633 .

53622816h34, 2

53622816635 3

53622816636 4

Question Number -35 Question Id -5362284271 Question Type $^{\circ}$ MCQ Option Shuffling $^{\circ}$ No Is Question Mandatory , No

Match Last I with Last II

Last II Last II

- (A) Input (I) Mouse
- (B) Output (II) Monitor
- (C) Memory (III) Cache
- (D) Software (IV) Python

Choose the correct answer from the options given below

- (1) (A) (I), (B) (II), (C) (IV), (D) (III)
- (2) (A) (I), (B) (III), (C) (II), (D) (IV)
- (3) (A) (III) (B) (II), (C) (I) (D) (IV)
- (4) (A) (I), (B, (II), (C) (III), (D) (IV)

Options:

53622816637 1

53622816638 2

53622816639 3

53622816640 4

Question Number $\,$ 35 Question Id $\,$ 5362284271 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory . No

पृर्ची 1

मबी II

(A) इनप्ट

(T) मातम

(B) आउटप्ट

(III) मानीटर

(C) ममारी

(III) केब

(D) साफ्टवेशर

(IV) पाइश्रोन

नीचं दिये गर्व दिकल्पा में सं सही उत्तर द्विए

(1) (A)-(I), (B)-,II), (C)-(IV) (D) (III)

(2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)

(3) (A)-(HI), (B) (II), (C) (I), (D)-(IV)

(4) (A) (I), (B) (II), (C, (III), (D) (IV)

Options:

53622816637 ...

53622816638. 2

53622816639 3

53622816640 4

Question Number 36 Question Id 5362284272 Question Type MCQ Option Shuffling No Is Question Mandatory, No

Which of the International Agreements Convention Protocols are legally binding on the member countries (parties)?

- (A) Convention on Biological Diversity
- (B) Kyoto Protocol
- (C) Montreal Protocol
- (D) Paris Agreement

Choose the most appropriate answer from the options given below

(1) (C) only

(2) (A) and (C) only

(3) (A), (B) and (C) only

(4) (B), (C) and (D) only

Options:

53622816641

53622816642 7

53622816643 3

53622816644 4

Question Number . 36 Question Id 5362284272 Question Type MCQ Option Shuffling No Is Question Mandatory No

निम्नार्चाखन साम कोनस समझौत अधिसमय प्रांटाकातम सदाय गष्टा पक्षा पर विधिक चपास बाध्यकारी हैं

- A) जैविक विविधना आंभ्रमम्म
- B) स्थाय प्रांटाकॉल
- (C) मान्ट्रक फ्रायकाल
- (D) पेरिस समझोना

र्नन्चं दियं ययं विकल्यों मं सं सही उत्तर च्नियं

(1) केवल (C)

(2) कंचल (A) और (C)

(3) कंबल (A). (B) और (C)

(4) कंदल (B), (C) গ্রীব (D)

Options .

53622816641 1

53622816642. 2

53622816643 3

53622816644 4

Question Number • 37 Question Id | \$362284273 Question Type : MCQ Option Shuffling : No Is Question Mandatory | No

Given below are two statements. One is labelled as Assertion ,A, and the other is labelled as Reason (R)

Assertion (A. . Carbon dioxide emissions from bioenergy Production have traditionally been excluded from most emission inventories and climate impact studies

Reason (R) Carbon dioxide emissions associated with production of bioenergy are significantly less compared to those from combustion of fossil fuels

In the light of the above statements, choose the correct answer from the options given below

- (1, Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is NOT the correct explanation of (A,
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

Options:

53622816645. .

53622816646 2

53622816647 3

53622816648. 4

Question Number 37 Question Id , 5362284273 Question Type , MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks ; 0

भीव स करून दिए गए है। जिसम् एक कर स्मिक्थर (A) और दूसर का नके (B) कहा प्रया है

अधिकायन (A) - तेव अन्यो क उत्पादन स कल्यंन हाइ भागसाइड क जसजन का आधिकारा उत्सावन सुन्नी और बलकायू प्रभाव अध्ययनों को पारम्परिक रूप से अपवीर्तित किया गया है

नक (R. है) है कर्ज़ म सबद्ध कार्बन बाङ्जाक्रमांदद के क्रमर्जन जोक्स्म ईंधना के न्यानन की न्यान म महन्त्रपूर्ण रूप संक्रम होत हैं

उपर्युक्त कथनों के आलांक म निम्नाकित विकल्पों में से सही उत्तर चुने

- (1) (A) और (R) दोनों सही हैं ऑग (R), (A) की सही व्याख्या है
- (2) (A) और (R) दानां सर्हा हैं परन्तु (R), (A) की सही व्याख्या नहीं है
- (S) (A) मही है परन्त (R) मही नहीं है
- (4) (A) सही नहीं है परन्त (R) सही है

Options:

53622816645 .

53622816646 2

53622816647 3

53622816648. 4

Question Number -38 Question Id : 5362284274 Question Type -MCQ Option Shuffling . No Is Question Mandatory : No

Correct Marks 2 Wrong Marks: 0

Wind energy is very sensitive to the wind velocity because wind power is directly proportional to the

(1) wind velocity

(2) square of the wind velocity

(3) square root of the wind velocity

(4) cube of the wind velocity

Options:

53622816649

53622816650 2

53622816651 3

53622816652 4

Question Number , 38 Question Id , 5362284274 Question Type , MCQ Option Shuffling , No Is Question Mandatory No

एवम कारा पाइन के बाग के पति अत्यधिक सवदनश्कित है क्यांकि प्रदान श<mark>कित विध्नत्मिण्यित में से किस एक के एत्यक्ष क</mark>नपान सं हाती है?

(1) पवन वंग

(2) पवन केंग के वर्ग

(3) पवन वंग के वगमूल

(4) प्रवन वग के घन

Options:

53622816649

53622816650 2

53622816651 3

53622816652 4

Question Number 39 Question Id 5362284275 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks * 2 Wrong Marks : 0

During physical treatment process of waste water, what is the correct order of following operations to be followed.

- (A) Flocculation
- (B) Filtration
- (C) Screening
- (D) Sedimentation

Choose the correct answer from the options given below 1

(1) (C), (D), (B), (A)

(2) (C), (D) (A) (B)

(3) (B), (D), (A), (C)

(4) (B), (C), (D) (A)

Options:

53622816653 .

53622816654. 2

53622816655 3

53622816656 4

Question Number • 39 Question Id • 5362284275 Question Type • MCQ Option Shuffling No Is Question Mandatory No

भक्तराय तार रू भंगितर अपहार के द्रीयन जिम्मीर्कावन में से कीर मा प्रचालन का मही क्रम है?

- (A) ফলাকুলখন
- (B) फिल्ट्र(शाद
- (C) स्त्रीमनप
- (D) संडीमंत्रशत

नीच दिए गए विकर्त्या में स सही उत्तर चुनिए ,

(1) (C). (D), (B), (A)

(2) (C), (D) (A), (B)

(3) (B), (D), (A), (C)

(4) (B), (C), (D), (A,

Options:

53622816653 ...

53622816654 2

53622816655 3

53622816656 4

Question Number 40 Question Id 5362284276 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks * 2 Wrong Marks : 0

Given below are two statements. One is labelled as Assertion. A) and the other is labelled as Reason (R):

- Assertion (A Carbon monoxide (CO is a serious asphyxiant, even a short exposure may have fatal health issues
- Reason (R) Hemoglotin present in the blood has greater affinity towards carbon monoxide than oxygen.

In the light of the above statements choose the most appropriate answer from the options given below

- 1) Both A and (R) are correct and (R) is the correct explanation of A)
- (2) Both (A and (R) are correct but (R) is NOT the correct explanation of (A)
- (3) (A) is correct but (R) is not correct
- (4) (A) is not correct but (R) is correct

Options:

53622816657 .

53622816658 2 53622816659 3 53622816660, 4

Question Number 40 Question Id 5362284276 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

्रीदि हा कथन दिए एए है जिसम स एक का अभिक्का (A) और दूसर का तक (R) कहा पया है।

र्मास्कथन A) - काञ्चन गार आक्साउड़≅ (CO) एक गर्भार अग्रहमराधक है। इसके एक गय् अग्र के उद्धासन से घानक स्वास्क्य समल उत्पन्न हो सकत हैं

नर्क (R) प्रतास विद्यमान होमाग्नर्शांबन का आक्रमीकन की तृत्तरा म कार्बन माना ऑक्साइड क प्राना मधिक सहज संबंध प्रांतर है

उपर्युक्त कथनी के आल्वाक में निम्नार्कित विकल्पों में से सर्वाधिक उपराक्त उत्तर चुर्न र

- (A) ओर (R) दास मदी हैं और (R), (A) की सदी व्याख्या "
- (2) (A) और (R) दानां सदी हैं परन्तु (R) (A) की सदी व्याख्या नहीं है
- (3) (A) ਸਵੀ ਵੇ ਧਾਰ (R) ਸਵੀ ਰਹੀ ਵੇ
- (4) (A) सही नहीं है परन्त (R) सही है

Options:

53622816657 .

53622816658 2

53622816659 3

53622816660 4

Question Number 41 Question Id 5362284277 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Match List I with List II List I consists of the Vedangas and List II contains subjects dealt in them.

List I

(A) Nirukta

(B) Chhandas

(C) Shiksha

(D) Kalpa

(IV) Etymology

Choose the correct answer from the options given below

- (A) (II), (B) (IV), (C) (III) (D) (I
- (2) (A) (IV), (B) (III), (C)-(I) (D) (II
- (3) (A) (III) (B) (I), (C) (II) (D) (IV)
- (4) (A)-(I), (B) (II). (C)-(IV) (D) (III)

Options:

53622816661 .

53622816662 2

53622816663 3

53622816664 4

Question Number 41 Question Id . 5362284277 Question Type MCQ Option Shuffling No is Question Mandatary No

मुक्ताf I का सक्ते $f \Pi$ सं सुर्मालन किंकिए। सुर्वति f I स बहुता है। तो सूर्वति $f \Pi$ में अनसे सर्वाधन किंकब किए गए हैं।

स्ची 🎞 मृची I A) निरुक्त य्वनांवज्ञान (I) (B) छद् (Ⅲ) अनुष्टान किसा (C) (III) छटरणस्य (IV) व्यक्पविविज्ञान 4D) रीच दियं गयं विकर्त्यां में सं सही उत्तर चनिए (A) (II), (B) (IV), (C) (III), (D) (I)(1) (2)(A) (IV), (B) (III) (C) (I), (D) (II) (3)(A) (III), (B) (I) (C) (II), (D (IV) (A) (I), (B) (II) (C) (IV), (D) (III) (4) Options: 53622816661 1 53622816662 2 53622816663 3 53622816664 4

Question Number · 42 Question Id · 5362284278 Question Type · MCQ Option Shuffling · No Is Question Mandatory No

Which of the following explain the concept of values?

- (A) Values are beliefs tied inextricably to human emotion and behaviour
- (B) Values refer to desirable goals people strive to attain
- (C) Values are conflict free
- (D) Values are ordered by importance relative to one another
- (E) Values are utilized primarily to effect change in knowledge of a person

Choose the correct answer from the options given below

(1) (A), (B), (C) only

(2) (A), (B). (D) only

(3) (B), (C), (D) only

(4) (C), (D), (E) only

Options:

53622816665 .

53622816666. 2

53622816667 3

53622816668. 4

Question Number · 42 Question Id 5362284278 Question Type · MCQ Option Shuffling : No Is Question Mandatory No

निम्निलिखन में से कीनसा कथन मन्त्रों की अवधारणा की व्याख्या करता हैं।

- (A) मृत्य मानव सवग और व्यवहार के साथ अनिच्छिल रूप से सहबद्ध विश्वास हैं
- (B) मृत्या का तत्ययं व्य वाछित व्हथ्या म है जिनकी प्रार्थन के त्या त्यकित प्रयास करते हैं.
- (C) मृत्य संघर्ष मुक्त है
- (D) मृत्य एक दूसा के सापश्चित महत्व के अनुसार कृषित हैं।
- (E) मन्या का प्राथमिक रूप संदर्भात के जात म पांख्यतन लग्न कोलय प्रयक्त किया जाता है

नाच दिय गर्थ विकल्पा में सं सही उत्तर चरियं

(1) 季वन (A), (B), (C)

(2) 하하다 (A), (B_c, fD

(3) **कंबल** (B), (C), (D)

(4) 화대적 (C), (D) (E)

Options:

53622816665 .

53622816666 2

53622816667 3

53622816668 4

Question Number $^\circ$ 43 Question Id = 5362284279 Question Type = MCQ Option Shuffling = No Is Question Mandatory , No

Which of the following come under the mandate of the University Grants Commission (UGC)?

- (A) Promotion and coordination of University education
- (B) Determining and monitoring standards of teaching, examination and research in Universities
- Organising continuous professional development programmes for college and University teachers.
 - (D) Framing regulations on minimum standards of education.
 - (E) Disbursing and regulating grants to the universities and colleges.

Choose the correct answer from the options given below.

(1) (A) (B), (C), (D) only

(2) (B), (C), (D), (E) only

(A), (C), (D), (E) only

(4) (A), (B), (D) (E) only

Options:

53622816669 ...

53622816670 2

53622816671 3

53622816672 4

Question Number 43 Question Id 5362284279 Question Type ; MCQ Option Shuffling No Is Question Mandatory ; No

निम्नालीवृत म य कीन्य किर्वावद्यालय अन्दान आवास यु ही यो क अध्हल क अनर्पत आने हैं ?

- (A) विश्वविद्यालयी शिक्षा का प्रात्माहन और समन्वयन ।
- (B) विश्वविद्यालय में शिक्षण, परीक्षा और शांध के मानकों का निर्धारण और अनुश्रवण
- () महाविद्यालय अप विश्ववावद्यालय के शिक्षका के क्लिए त्याव्याचिक विकास कार्यक्रमा के सनत आयादन
 - (D) शिक्षा के न्युनतम मानको के आर में विनिमयों को बनाना।
 - (E) विश्वविद्यालयों और महाविद्यालयों के अनुदान का सवितरण और विनियमन ।

नीच दिस गय विकल्या में सं सही उत्तर चनिय

(1) केंबल (A), (B), (C), (D)

(2) *****中国帝 (B), (C), (D), (E)

(3) = *** (A), (C), (D), (E)

(4) कवल (A), (B), (D), (E)

Options:

53622816669 .

53622816670 2

53622816671 3

53622816672 4

Question Number . 44 Question Id -5362284280 Question Type -MCQ Option Shuffling . No is Question Mandatory \cdot No

Given below are two statements.

Statement I. Equality of educational opportunities is a pre-condition for achieving equity in education

Statement II Equity in education can be achieved without equality of educational opportunities.

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options :

53622816673 .

53622816674 2

53622816675. 3

53622816676 4

Question Number 44 Question Id 5362284280 Question Type MCQ Option Shuffling No Is Question Mandatory . No

नीचं हो कथन हिए गए हैं

- कथन (I) वीथिक अवसरा की समावना विकास समना प्राप्त करन की एक एवं पर्त है
- अध्य (Ⅲ) । व्यक्षिक अवस्या की समाजना के ब्रिया विकास समना प्राप्त की जा सकती है।

उपयंक्त कथर्ना के अल्लंक में निम्मांकित विकल्मों में से सही उत्तर चुने :

- (1) कथन I और II तनो सद्य हैं ।
- (2) कथन I और II दाना गलत है ।
- (3) कथन I सत्य है किन कथन Ⅲ गलत है
- (4) कथन I असत्य है किन कथन ∐ सही है

Options:

53622816673 .

53622816674 2

53622816675. 3

53622816676 4

Question Number , 45 Question Id $^\circ$ 5362284281 Question Type , MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

What are the advantages of Choice Based Credit System (CBC5) introduced by the UGC for higher education institutions?

- (A) Focuses on student-central education
- (B) Allows students to choose inter disciplinary and intra disciplinary courses.
- (C) Makes education at par with global standards
- (D) Makes it easy to estimate the performance levels of students in terms of marks.
- (E) Offers flexibility for students to undertake studies at different times and at different institutions

Choose the correct answer from the options given below

(1) (A), (B), (C), (D) only

(2) (B), (C), (D), (E) only

(3) (A), (B), (C), (E) only

(4) (C), (D), (E), (A) only

Options: 53622816677 . 53622816678, 2 53622816679 3 53622816680. 4 Question Number : 45 Question Id : 5362284281 Question Type : MCQ Option Shuffling No Is Question Mandatory No. Correct Marks . 2 Wrong Marks : 0 य जो मां। द्वारा उच्च णिक्षा संस्थाना व पारम्भ की गई चिकल्प आधारित क्रीदर पुणा से (मी क्री मी एम) के क्या लाभ है (इमम लाज कन्द्रित शिक्षा पर ध्यान कन्द्रित किया जाता है। (A) इसम् जावर कर अनाविद्यास्त्रक अर्थ अन् विद्यापुरक पाठ्यक्रमा क चयन की अनुमान की जाती है (B) यह शिक्षा को वैध्विक मानकों के समकक्ष बनाता है । (0) वह पण्याकः कु सद्भ में विद्यार्थया कु निष्यादन स्टय का अनुवाद अयास सम्ब बनाता है। (D) यह भिन्न समय पर भिन्न सम्धानों में अध्यक्षत करने में गतिभीलता प्रदान करता है। (E) नीच दिये गय विकल्पां में सं मही उत्तर चनियं केवल (B), (C), (D), (E) (1)केवल (A), (B), (C), (D) (2)(3)कवल ,A), (B), (C). (E) (4) ***** * * (C), (D), (E), (A)

Options :

53622816677 .

53622816678 2

53622816679. 3

53622816680. 4

Sub-Section Number:

Sub-Section Id:

3

536228169

Yes

Question Shuffling Allowed:

Question Id : 5362284282 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions . No

Question Numbers : (46 to 50)
Question Label Comprehension

Read the passage and answer questions from 46 to 50.

Through their work and the efforts of others managers in all kinds of organisational settings, whether industrial educational governmental or military are attempting to run their organizations with the management by objectives process as a basic underlying management concept. Management by objectives is basically a process where by the seniors. and the junior managers of an enterprise jointly identify its common goals, define each individuals major areas of responsibility in terms of the results expected. use these measures as guides for operating the unit and assessing the contribution of each of its members. In some cases, this process has been successfully carria beyond the managerial level to include hourly employees. The concept rests on a philosophy of management that emphasizes an integration between external control by managers and self-control by employees. It can apply to any manager or individual no matter what level or function, and to any organisation regardless of size. The effective functioning of this system is an agreement between a manager and an employee about that employee's groups performance. goals during a stated time period. These goals can emphasise either output variables of intervening variables or some combination of both. The important thing is that goals are jointly established and agreed upon in advance. At the end of the time period performance is reviewed in relation to accepted goals. Both the employee and the manager participate in this review

Sub questions

Question Number · 46 Question Id : 5362284283 Question Type · MCQ Option Shuffling · No Is Question Mandatory · No

Correct Marks: 2 Wrong Marks: 0

In an MBO organisation is managed through the identification of

(1) competing goals

(2) common objectives

(3) its specific characterities

(4) senior and jumpr managers

Options:

53622816681 . 53622816682 2 53622816683 3 53622816684 4

Question Number · 47 Question Id · 5362284284 Question Type · MCQ Option Shuffling · No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

The requisite for management by objectives is centred on

the control by seniors

(2) the guidance of juniors

(3) the participatory process

(4) the organisational settings

Options:

53622816685 1

53622816686 2

53622816687 3

53622816688 4

Question Number 48 Question Id 5362284285 Question Type MCQ Option Shuffling No Is Question Mandatory : No

The critical feature of the concept in this type of management is related to

- (1) the assignment of responsibility to the workers
- (2) distinguishing the operational role between managers and workers
- (3) promoting of uniformity of work environment among all types of organisation
- (4) sharing of responsibility with an eye on results

Options:

53622816689

53622816690 2

53622816691 3

53622816692 4

Question Number 49 Question Id · 5362284286 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

In this frame of reference, how does an organisation function effectively?

- (1) By including the hourly employees in the managemal positions
- (2) By identifying and executing performance targets in a collaborative mode
- (3) By imposing a rigid philosophy of management
- (4) By providing separate work environment for both managers and workers.

Options:

53622816693 ...

53622816694 2

53622816695 3

53622816696 4

Question Number 50 Question Id 5362284287 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks: 2 Wrong Marks: 0

The philosophy behind management by objectives is to

- (1) effect improvement through a joint review of achievement of performance goals within a given timeframe
- (2) integrate external and internal controls by managers
- (3) provide managers scope to review the accepted output variables
- agree upon different performance goals for managers and employees

Options:

53622816697 .

53622816698 2

51622816699 3

53622816700 4

Question Id * 5362284282 Question Type: COMPREHENSION Sub Question Shuffling Allowed * Yes Group Comprehension Questions: No

Question Numbers : (46 to 50)

Question Label Comprehension

नीच दिए गए पद्याण का श्वापपूर्वक पीता की अग्रक परचान, पूछन से 46 00) के उन्हें शिवा स्थाप परकर के मगरक में चाह जीवागक जीविक सरकार अध्या मेंन्य व्यवस्था में तुड़ ग्या ने ही प्रवधिक अपन कार्य पर्धामा के माध्यप में अपन अपन संपरन की चलन के लिए सम्प्रिन एमी एक हि अन्वत्याणा का रण्याप के यह दे तिम उद्देश्य अपित प्रवधिक की सेना है। एवं है कि उद्देश स्थापित प्रवधिक समान लहेंचे की सेना है। एवं है कि माध्य में पर्पाणित करने हैं कि माध्य पर पर्णाणित करने हैं विशेष की माध्य पर पर्णाणित करने हैं विशेष की माध्य पर पर्णाणित करने हैं विशेष अपने की सेना है। माध्य की देश्य के माध्य पर पर्णाणित करने हैं माध्य की देश्य के माध्य की अपने हैं के ममाध्य में किरोग के कप में अन्वता की अपने हैं के माध्य में किरोग प्रवधिक कप में अन्वता की अपने हैं के माध्य में किरोग प्रवधिक है। माध्य की देश की सेना में अन्वता करने हैं माध्य है। माध्य की देश की माध्य की अपने हैं। माध्य की अपने हैं। माध्य की अपने माध्य पर अने प्रविध मन से माध्य प्रविध में सेना माध्य नियम पर अने प्रविध माध्य में सेना माध्य माध्य माध्य माध्य की सेना है। माध्य की सेना माध्य पर की देश माध्य माध्य की सेना माध्य माध्य माध्य माध्य की माध्य माध्य माध्य की माध्य म

Sub questions

Question Number . 46 Question Id . 5362284283 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

किसी 187य आधारित प्रबंधक एम की ना मा संगठन का निम्हालीकृत मास किसकी पहचान करन के माध्यम स प्रबंधन किया जाता है

(1) प्रांतस्पर्धी लक्ष्या की

(2) साझा उद्धंपयां की

(3) उसकी र्वाश्रप्त विशेषताओं की

(4) बारष्ट और कान्छ प्रवधका की

Options:

53622816681 .

53622816682 2

53622816683. 3

53622816684 4

Question Number , 47 Question Id , 5362284284 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks ; 0

उद्दरय आवारित प्रष्ठावन की प्रवेशन निम्नलिखित में से किस पर कन्द्रित है?

वरिष्ठ अभिक्रमिया द्वारा नियत्रण

(2) कविष्ठ अभिकमियाँ को दिशानिर्देशन

(3) महभागिनापुर्ण प्रक्रिया

(4) सगठनात्मक व्यवस्था

Options:

53622816685 ...

53622816686 2

53622816687 3

53622816688 4

Question Number : 48 Question Id 5362284285 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

इस एकए के प्रवधन से सर्वाधन अनुधारण की सहन्त्वण विराधन निम्नालिकित से से किन्से सर्वाधिन हैं

- अधिकांपयां का उत्तरदायित्व सींपना
- (2) प्रबंधकों और अभिकर्षिया के बीच उनकी कार्यगत भूमिका में अनर करना
- (3) सभी प्रकार क सफ़त्रना के बीच कार्य जानावरण में एकरूपता का बहाजा दना
- (4) परिणामा पर ध्यान रखते हुए उत्तरदाखित्व को साझा करना

Options:

53622816689 .

53622816690. 2

53622816691 3

53622816692 4

Question Number 49 Question Id . 5362284286 Question Type ' MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

दिए गए मदर्भ के अनुमार, कोई संपटन किस प्रकार से प्रभावी रूप से कार्य करता है?

- दैनिक अभिकामियां का प्रबधकाय पढां पर प्राप्तिल करना।
- (2) याद्राटारिपूर्ण प्रांत्रोध सांद सं स्वरणद्वन लक्ष्यां की पहचान करना और उनको कार्यादिन करना
- (S) प्रबंधन पर कठार दशन लादना
- (4) प्रवधको और अभिकपिया राज्य के लिए अलग अलग कार्य वातावरण मुद्देश कराना

Options:

53622816693 1

53622816694 2

53622816695 3

53622816696 4

Question Number • 50 Question Id • 5362284287 Question Type • MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

स्ट्रम्य आधारित प्रबंधन म निहित दशन

- (1) किस्तो ती गड़ अभवसीमा के अद्यु निष्पादन लक्ष्या की रणलव्धि की संयुक्त समीक्षा के माध्यम स निष्पादन प्रभाव म स्थार करना
- (2) प्रबधको द्वारा बाह्य और आर्ताम्क नियत्रणों को सप्तकित करना
- (3) स्वीकाय निगत चर्ग की समीक्षा करने इत् प्रवधका का गुजाइस मुद्रैया कराना
- (4) प्रबंधको और अभिकमियों इत् उत्लग अलग निष्यादन लक्ष्यों पर सहमत हाना।

Options:

51622816697 .

53622816698. 2

53622816699 3

53622816700. 4

PART II Computer Science and Applications

Section Id:

53622858

Section Number:

2

Section type:

Online

Mandatory or Optional : Mandatoty Number of Questions : 92 92 Number of Opestions to be attempted . Section Marks: 200 Mark As Answered Required?: Yes Sub-Section Number: 1 Sub-Section 1d : 536228170 Question Shuffling Allowed: Yes

Question Number $^{\circ}$ 51 Question Id = 5362284288 Question Type = MCQ Option Shuffling $^{\circ}$ No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

The number of positive integers not exceeding 100 that are either odd or the square of an integer is

- (1) 68
- 2) 59
- (3) 55
- 4) 50

Options:

53622816701 1

53622816702 2

53622816703 3

53622816704 4

Question Number : 51 Question Id 5362284288 Question Type MCQ Option Shuffling . No is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

The number of positive integers not exceeding 100 that are either odd or the square of an integer is

- (1) 68
- 2) 59
- (3) 55
- 4) 50

Options:

53622816701 1

53622816702 2

53622816703 3

53622816704 4

Question Number 52 Question Id 5362284289 Question Type MCQ Option Shuffling No Is Question Mandatory . No

How many ways are there to pack six copies of the same book into four identical boxes, where a box can contain as many as six books?

- (1) 4
- (2) 6
- 3) 7
- (4) 9

Options:

53622816705 .

53622816706. 2

53622816707 3

53622816708. 4

Question Number 52 Question Id 5362284289 Question Type : MCQ Option Shuffling . No Is Question Mandatory 1 No

Correct Marks: 2 Wrong Marks: 0

How many ways are there to pack six copies of the same book into four identical boxes, where a box can contain as many as six books?

- (1) 4
- (2) 6
- (3) 7
- (4) 9

Options:

53622816705. .

53622816706 2

53622816707 3

53622816708. 4

Question Number , 53 Question Id , 5362284290 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

Which of the following pairs of propositions are not logically equivalent?

- (1) $((p \rightarrow r) \land (q \rightarrow r))$ and $((p \lor q) \rightarrow r)$
- (2) $p \leftrightarrow q \text{ and } \{ p \leftrightarrow q \}$
- (3) $((p \land q) \lor (\neg p \land \neg q))$ and $p \leftrightarrow q$
- (4) $((p \land q) \Rightarrow r)$ and $((p \Rightarrow r) \land (q \Rightarrow r))$

Options:

53622816709 .

53622816710 2

536228167... 3

Question Number , 53 Question Id : 5362284290 Question Type , MCQ Option Shuffling . No Is Question Mandatory No

Correct Marks 2 Wrong Marks - 0

Which of the following pairs of propositions are not logically equivalent?

- (1) $((p \rightarrow r) \land (q \rightarrow r))$ and $(p \lor q) \rightarrow r)$
- (2) $p \leftrightarrow q \text{ and } (\neg p \leftrightarrow \neg q)$
- (3) $(p \land q) \lor (\neg p \land \neg q)$ and $p \leftrightarrow q$
- (4) $\{(p \land q) \rightarrow r\}$ and $\{(p \rightarrow r) \land (q \rightarrow r)\}$

Options:

53622816709 .

536228167.0 2

536228167.1 3

53622816712. 4

Question Number . 54 Question Id . 5362284291 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

Consider the following linear programming (LP),

$$\mathbf{Max.} \qquad \mathbf{z} = 2\mathbf{x}_1 + 3\mathbf{x}_2$$

Such that
$$2x_1 + x_2 \le 4$$

$$x_1 + 2x_2 \le 5$$

$$\mathbf{x}_1,\mathbf{x}_2 \geq \mathbf{0}$$

The optimum value of the LP is

- (1) 23
- (2) 9.5
- (3) 13
- (4) 8

Options:

53622816713 .

516228167.4 2

53622816715.3

536228167.6 4

Question Number 54 Question Id , 5362284291 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks • 2 Wrung Marks • 0

Consider the following linear programming (LP),

Max.
$$x = 2x_1 + 3x_2$$

Such that $2x_1 + x_2 \le 4$
 $x_1 + 2x_2 \le 5$
 $x_1, x_2 \ge 0$

The optimum value of the LP is

- (1) 23
- (2) 9.5
- (3) 13
- (4) 8

Options:

53622816713 .

536228167.4 2

536228167.5.3

53622816716. 4

Question Number , 55 Question Id , 5362284292 Question Type , MCQ Option Shuffling , No Is Question Mandatory ; No $\,$

Correct Marks , 2 Wrong Marks : 0

Consider a machine with a byte addressable main memory of 2¹⁸ bytes and block size of 8 bytes. Assume that a direct mapped cache consisting of 32 lines used with this machine How many bits will be there in Tag. Line and word field of format of main memory addresses?

- (1) 8, 5, 3
- (2) 8.6.2
- (3) 7, 5, 4
- 4) 7, 6, 3

Options:

536228167.7 .

536228167 8. 2

536228167.9 3

53622816720 4

Question Number $^\circ$ 55 Question Id . 5362284292 Question Type : MCQ Option Shuffling No Is Question Mandatory $^\circ$ No

Consider a machine with a byte addressable main memory of 2¹⁸ bytes and block size of 8 bytes. Assume that a direct mapped cache consisting of 32 lines used with this machine How many bits will be there in Tag. line and word field of format of main memory addresses?

- (1) 8. 5. 3
- (2) 8.62
- (3) 154
- 4) 1.6.3

Options:

53622816717 .

536228167.8 2

536228167.9 3

53622816720 4

Question Number 56 Question Id 5362284293 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks . 2 Wrong Marks : 0

The following program is stored in memory unit of the basic computer. What is the content of the accumulator after the execution of program? (All location numbers listed below are in hexadecimal).

Location	Instruction
210	CLA
211	ADD 217
212	INC
213	STA 217
214	LDA 218
215	CMA
216	AND 217
217	1234H
218	9CE2H

- (1) 1002H
- (2) 2011H
- (3, 2022H
- (4 0215H

Options:

53622816721 .

53622816722. 2

53622816723 3

53622816724 4

Question Number 56 Question Id 5362284293 Question Type : MCQ Option Shuffling : No Is Question Mandatory . No

Correct Marks: 2 Wrong Marks: 0

The following program is stored in memory unit of the basic computer. What is the content of the accumulator after the execution of program? (All location numbers listed below are in hexadecimal).

Location	Instruction
210	CLA
211	ADD 217
212	INC
213	STA 217
214	LDA 218
215	CMA
216	AND 217
217	1234H
218	8CE5H

- (1) 1002H
- (2) 2011H
- (3) 2022H
- (4) 0215H

Options:

53622816721 ...

53622816722 2

51622816723 3

53622816724 4

Question Number , 57 Question Id , 5362284294 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks ; 0

A non pipeline system takes 50ns to process a task. The same task can be processed in six segment pipeline with a clockcycle of 10ns. Determine approximately the speedup ratio of the pipeline for 500 tasks.

- (1) 6
- (2) 4 95
- (8) 5.7
- 4) 55

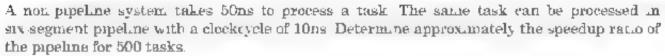
Options:

53622816725. .

53622816726. 2

53622816727 3

Question Number , 57 Question Id : 5362284294 Question Mandatory : No	on Type , MCQ Option Shuffling . No Is Question
Correct Marks , 2 Wrong Marks : 0	



- ,1) 6
- (2) 4.95
- (3) 6.7
- (4) 5 b

Options:

53622816725 .

53622816726 2

53622816727 3

53622816728. 4

Question Number . 58 Question Id 5362284295 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

What is the radix of the numbers if the solution to the quadratic equation $x^2 - 10x + 26 = 0$ is x - 4 and x - 7?

(1) 8

(2) 9

(3) 10

(4) 11

Options:

53622816729 ,

53622816730 2

53622816731 3

53622816732 4

Question Number $\,$ 58 Question Id $\,$ 5362284295 Question Type , MCQ Option Shuffling $\,$ No Is Question Mandatory : No

Correct Marks 2 Wrong Marks: 0

What is the radix of the numbers if the solution to the quadratic equation $x^2 - 10x + 26 = 0$ is x - 4 and x - 7?

(1) 8

(2) 9

(3) 10

(4) 11

Options:

53622816729 .

```
53622816730 2
53622816731 3
53622816732 4
```

Question Number 59 Question Id 5362284296 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks 2 Wrong Marks : 0

Consider the following pseudo-code fragment, where a and b are integer variables that have been initialized

```
/* Pre-conditions: (a > 1 A a < b) */

/* Assume that overflow never occurs */

.nt x = 0; int p = 1

while (p < b) {

p = p * a;

x = x + 1;

}
```

When the while loop terminates, what will be the value of z in terms of a and b°

- (1) a^b
- (2) b^a
- (3) $[\log_n^b] /* []$ means floor */
- (4) $\left[\log \frac{b}{a}\right] / * \left[\text{ | means ceil } * / \right]$

Options:

53622816733, 1 53622816734, 2 53622816735, 3 53622816736, 4

Question Number , 59 Question Id -5362284296 Question Type -MCQ Option Shuffling : No Is Question Mandatory -No

Consider the following pseudo code fragment, where a **and** b are integer variables that have been initialized

```
/* Pre conditions : (a > 1 A a < b) */

/* Assume that overflow never occurs */

int π 0; mt p 1

while (p < b) {

p p * a;

t + 1
```

When the while loop terminates, what will be the value of z in terms of a and b^2

- (1) a^b
- (2) b^a
- (3) $\log_a^b /* \lfloor means floor */$
- (4) \log_{σ}^{b} /* [| means ceil */

Options:

53622816733 . 53622816734 2

53622816735 3

53622816736 4

Question Number $^\circ$ 60 Question Id $^\circ$ 5362284297 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory $^\circ$ No

Correct Marks: 2 Wrong Marks: 0

In HTML, <map> tag .s used for

- (1) defining a path between two nodes in an image
- (2) defining chekable region in an image
- (3) highlighting an area in an .mage
- (4) defining the site map of a web site

Options:

53622816737 .

53622816738 2

53622816739 3

53622816740 4

Question Number 60 Question Id 5362284297 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks * 2 Wrong Marks : 0

In HTML, <map> tag .s used for

- (1) defining a path between two nodes in an image
- (2) defining chekable region in an image
- (3) highlighting an area in an .mage
- (4) defining the site map of a web site

Options:

53622816737 . 53622816738 2 53622816739 3 53622816740 4

Question Number: 61 Question 1d · 5362284298 Question Type. MCQ Option Shuffling No Is Question Mandatory · No

Correct Marks : 2 Wrong Marks : 0

Suppose you are complling on a machine with 1 byte chars 2 byte shorts 4 byte ints and 8 byte doubles, and with alignment rules that require the address of every primitive data element to be an integer multiple of the element's size. Suppose further that the compiler is not permitted to reorder fields, padding is used to ensure alignment. How much space will be consumed by the following array?

short to

char d

double r

int 1:

A[10] *10 element array of structs*/

- (1) 150 bytes
- (2) 320 bytes
- (3) 240 bytes
- 4) 200 bytes

Options:

53622816741 .

51622816742 2

53622816743 3

53622816744 4

Question Number · 61 Question Id : 5362284298 Question Type : MCQ Option Shuffling : No is Question Mandatory · No

Correct Marks: 2 Wrong Marks: 0

Suppose you are compiling on a machine with 1 byte chars 2 byte shorts 4 byte ints and 8 byte doubles, and with alignment rules that require the address of every primitive data element to be an integer multiple of the element's size. Suppose further that the compiler is not permitted to reorder fields, padding is used to ensure alignment. How much space will be consumed by the following array.

```
struct {
       short s.
       char c:
       short to
       char d.
       double r
       int 1:
       A[10] *10 element array of structs*/
 (1)
         150 bytes
  .2)
         320 bytes
        240 bytes
  (3)
4)
        200 bytes
Options:
53622816741 .
53622816742 2
53622816743 3
53622816744 4
```

Question Number , 62 Question Id 5362284299 Question Type . MCQ Option Shuffling No Is Question Mandatory . No

Consider the following recursive Java function / that takes two long arguments and returns a float value.

public static float f (long m, long n) {

float result (float)m / (float)n,

If $(m < 0 \frac{1}{8}n < 0)$ return 0.0f;

else result = f(m*2, n*3)

return result

Which of the following real values best approximates the value of f (1.3. ?

- (1) 0.2
- (2) 0.4
- (3) 0.6
- (4) 08

Options:

53622816745 .

53622816746 2

53622816747 3

53622816748 4

Question Number , 62 Question Id : 5362284299 Question Type : MCQ Option Shuffling . No Is Question Mandatory No

Consider the following recursive Java function / that takes two long arguments and returns a float value.

public static float f (long m, long n) {

float result (float)m / (float)n,

If $(m < 0 \frac{1}{3} n < 0)$ return 0.0f;

else result = f(m*2, n*3)

return result

Which of the following real values best approximates the value of f (1.3. ?

- (1) 0.2
- (2) 0.4
- (3) 0.6
- (4) 08

Options:

53622816745 .

53622816746 2

53622816747 3

53622816748 4

Question Number , 63 Question Id : 5362284300 Question Type : MCQ Option Shuffling . No Is Question Mandatory : No

Correct Marks * 2 Wrong Marks : 0

The data node and name node in HADOOP are

- (1) Worker Node and Master Node respectively
- (2) Master Node and Worker Node respectively
- (3) Both Worker Nodes
- (4) Both Master Nodes

Options:

53622816749 .

53622816750 2

53622816751 3

53622816752 4

Question Number 63 Question Id 5362284300 Question Type MCQ Option Shuffling No Is Question Mandatory : No

The data node and name node in HADOOP are

- (1) Worker Node and Master Node respectively
- (2) Master Node and Worker Node respectively
- (3) Both Worker Nodes
- (4) Both Master Nodes

Options:

53622816749 .

53622816750 2

53622816751 3

53622816752 4

Question Number . 64 Question Id : 5362284301 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks : 2 Wrong Marks : 0

Consider a relational schema S = (U, V, W, X, Y, Z) on which the following functional dependencies hold.

 $\{U \rightarrow V, VW \rightarrow X, Y \rightarrow W, X \rightarrow U\}$

Which are the candidate keys among following options?

- (1) UY VY
- (2) UY VY XY
- (8) UYZ, VYZ, VWZ
- (4) UYZ, VYZ XYZ

Options:

53622816753 .

53622816754 2

53622816755 3

53622816756. 4

Question Number : 64 Question Id 5362284361 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

Consider a relational schema $S = (U \vee W \land Y \land Z)$ on which the following functional dependencies hold.

 $\{U \rightarrow V, VW \rightarrow X Y \rightarrow W, X \rightarrow U\}$

Which are the candidate keys among following options?

- (1) UY VY
- (2) UY, VY XY
- (S) UYZ VYZ VWZ
- (4) UYZ, VYZ XYZ

Options:

53622816753 . 53622816754 2 53622816755 3 53622816756 4

Question Number 65 Question Id : 5362284302 Question Type : MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks: 2 Wrong Marks: 0

Consider a hypothetical machine with S pages of physical memory 5 pages of virtual memory, and < AB,CDA,BEA,B,CDE,BAB as the stream of page references by an application if P and Q are the number of page faults that the application would incur with FIFO and LRU page replacement algorithms respectively, then $P,Q_1 = \frac{1}{2}$ (Assuming enough space for storing 3 page frames)

- (1) (11 10)
- (2) (12, 11)
- (3) (10 11)
- (4) (11, 12)

Options:

53622816757 .

53622816758 2

53622816759 3

53622816760 4

Question Number , 65 Question Id , 5362284302 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks 2 Wrong Marks: 0

- (1) (11, 10)
- (2) (12, 11)
- (3) (10 11)
- (4) (11/12)

Options:

53622816757 .

53622816758. 2

53622816759 3

53622816760 4

Question Number : 66 Question Id : 5362284303 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

Consider a disk system having 60 cylinders. Disk requests are received by a disk drive for cylinders 10–22–20, 2, 40, 6 and 35, in that order. Assuming the disk head is currently at cylinder 20, what is the time taken to satisfy all the requests if it takes 2 milliseconds to move from one cylinder to adjacent one and Shortest Seek Time First. SSTF) algorithm is used?

- (1) 240 mill.seconds
- (2) 96 milliseconds
- (3) 120 milliseconds
- (4) 112 mil.iseconds

Options:

53622816761 .

53622816762 2

53622816763 3

53622816764 4

Question Number 66 Question Id . 5362284303 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Consider a disk system having 60 cylinders. Disk requests are received by a disk drive for cylinders 10, 22, 20, 2, 40, 6 and 38, in that order. Assuming the disk head is currently at cylinder 20, what is the time taken to satisfy all the requests if it takes 2 milliseconds to move from one cylinder to adjacent one and Shortest Seek Time First. SSTF) algorithm is used?

- 240 mill.seconds
- (2) 96 milliseconds
- 3) 120 milliseconds
- (4) 112 milliseconds

Options:

53622816761 .

53622816762. 2

53622816763 3

53622816764 4

Question Number : 67 Question Id 5362284304 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

Suppose you have a Linux file system where the block size is 2K bytes a disk address is 32 bits, and an i node contains the disk addresses of the first 12 direct blocks of file, a single indirect block, and a double indirect block. Approximately what is the largest file that can be represented by an i node?

(1) 513 Kbytes

(2) 513 MBytes

3) 537 Mbytes

(4) 537 KBytes

Options:

53622816765 .

53622816766 2

53622816767 3

53622816768 4

Question Number $\,$ 67 Question Id $\,$ 5362284304 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory . No

Correct Marks ; 2 Wrong Marks : 0

Suppose you have a Linux file system where the block size is 2K bytes a disk address is 32 bits, and an i node contains the disk addresses of the first 19 direct blocks of file a single indirect block, and a double indirect block. Approximately what is the largest file that can be represented by an i-node⁴

513 Kbytes

(2) 513 MBytes

(3) 537 Mbytes

(4) 537 KBytes

Options:

53622816765. .

53622816766 2

53622816767 3

53622816768. 4

Question Number * 68 Question Id : 5362284305 Question Type * MCQ Option Shuffling * No Is Question Mandatory * No

Correct Marks: 2 Wrong Marks: 0

Consider a single level page table system, with the page table stored in the memory. If the hit rate to TLB is 80°, and it takes 15 nanoseconds to search the TLB, and 150 nanoseconds to access the main memory, then what is the effective memory access time, in nanoseconds?

(1) 185

(2) 195

(3) 205

(4) 175

Options:

53622816769 .

53622816770 2

53622816771 3

53622816772. 4

Question Number . 68 Question Id . 5362284305 Question Type . MCQ Option Shuffling . No Is Question

Mandatory ' No.

Correct Marks: 2 Wrong Marks: 0

Consider a single level page table system, with the page table stored in the memory. If the hit rate to TLB is 80%, and it takes 15 nanoseconds to search the TLB, and 150 nanoseconds to access the main memory, then what is the effective memory access time, in nanoseconds?

(1) 185

(2) 19b

(3) 205

(4) 175

Options:

53622816769. .

53622816770, 2

53622816771 3

53622816772 4

Question Number 69 Question Id: 5362284306 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks . 2 Wrong Marks : 0

Which of the following LML diagrams has a static view?

Collaboration diagram

(2) Use Case diagram

(3) State chart diagram

(4) Activity diagram

Options:

53622816773. .

53622816774 2

53622816775 3

53622816776. 4

Question Number . 69 Question Id 5362284306 Question Type MCQ Option Shuffling : No Is Question Mandatory ' No

Correct Marks . 2 Wrong Marks : 0

Which of the following UML diagrams has a static view

(1) Collaboration diagram

(2) Use Case diagram.

(3) State chart diagram

(4) Activity diagram

Options:

53622816773 .

53622816774 2

53622816775 3

53622816776. 4

Question Number , 70 Question Id : 5362284307 Question Type , MCQ Option Shuffling No Is Question Mandatory : No

Modifying the software by restructuring is called

- (1) Adaptive maintenance
- (2) Corrective maintenance
- (3) Perfective maintenance
- (4) Preventive maintenance

Options:

53622816777 .

53622816778 2

53622816779 3

53622816780 4

Question Number , 70 Question Id , 5362284307 Question Type , MCQ Option Shuffling . No is Question Mandatory No

Correct Marks . 2 Wrong Marks : 0

Modifying the software by restructuring is called

- (1) Adaptive maintenance
- (2) Corrective maintenance
- (3) Perfective maintenance
- (4) Preventive maintenance

Options:

53622816777 1

53622816778 2

53622816779 3

53622816780 4

Question Number $\,$ 71 Question Id $\,$ 5362284308 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory . No

Correct Marks 2 Wrong Marks: 0

A Company has a choice of two languages L_1 and L_2 to develop a software for their client Number of LOC required to develop an application in L_2 is thrice the LOC in language L_1 . Also, software has to be maintained for next 10 years. Various parameters for two languages are given below to decide which language should be preferred for development.

PARAMETER	L_1	L_2
Man year needed for development	LOC/1000	LOC/1000
Development cost	Rs 70 000	Rs 90.000
Cost of Maintenance per year	Rs.1,00,000	Rs 40,000

Total cost of project include cost of development and maintenance. What is the LOC for L_{\perp} for which cost of developing the software with both languages must be same?

(1) 2000

(2) 6000

(3) 3000

(4) 5000

Options:

53622816781 1

53622816782 2

53622816783 3

Question Number 71 Question Id 5362284308 Question Type ; MCQ Option Shuffling ; No Is Question Mandatory . No

Correct Marks : 2 Wrong Marks : 0

A Company has a choice of two languages L_1 and L_2 to develop a software for their client Number of LOC required to develop an application in L_2 is thrice the LOC in language L_1 . Also, software has to be maintained for next 10 years. Various parameters for two languages are given below to decide which language should be preferred for development.

PARAMETER	L_1	I ₂
Man year needed for development	LOC-1000	LOC/1000
Development cost	Rs 70.000	Rs 90.000
Cost of Maintenance per year	Re 1 00,000	Rs 40,000

Total cost of project include cost of development and maintenance. What is the LOC for L_{\perp} for which cost of developing the software with both languages must be same?

(1) 2000

(2) 8000

(3) 3000

(4) 5000

Options:

53622816781 .

53622816782 2

53622816783 3

53622816784 4

Question Number 72 Question Id 5362284309 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

A Software project was estimated at 864 Function Points. A six person team will be assigned to project consisting of a requirement gathering person, one designer two programmers and two testers. The salary of the designer is ₹70,000 per month, requirement gatherer is ₹50,000 per month programmer is ₹60,000 per month and a tester is ₹60,000 per month. Average productivity for the team is 12 FP per person month. Which of the following represents the projected cost of the project?

(1) ₹33,20,000

(2) ₹43,20,000

(3) ₹33.10.000

(4) ₹22.10.000

Options:

53622816785

53622816786 2

53622816787 3

53622816788. 4

Question Number , 72 Question Id , 5362284389 Question Type , MCQ Option Shuffling , No Is Question Mandatory No

A Software project was estimated at 864 Function Points: A six person team will be assigned to project consisting of a requirement gathering person, one designer, two programmers and two testers. The salary of the designer is ₹70,000 per month, requirement gatherer is ₹50,000 per month programmer is ₹60,000 per month and a tester is ₹60,000 per month. Average productivity for the team is 12 FP per person month. Which of the following represents the projected cost of the project?

(1) ₹33,20,000

(2) 43,20.000

(3) ₹33,10,000

(4) ₹22.10.000

Options:

53622816785 .

53622816786 2

53622816787 3

53622816788 4

Question Number 73 Question Id 5362284310 Question Type MCQ Option Shuffling No Is Question Mandatary : No

Correct Marks · 2 Wrong Marks : 0

A complete normal roles as a tree in which each node has nichildren or no children. Let I be the number of internal nodes and L be the number of leaves in a complete normal rice. If L-41 and I 10. What is the value of no

(1) 3

(2) 4

(3) b

(4) 6

Options:

53622816789 .

53622816790 2

53622816791 3

53622816792 4

Question Number , 73 Question Id : 5362284310 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks : 0

A complete n ary tree is a tree in which each node has n children or no children. Let I be the number of internal nodes and I be the number of leaves in a complete n ary tree. If L=41 and I 10. What is the value of n°

(1) 3

(2) 4

(3) to

(4) 6

Options:

53622816789 .

53622816790 2

53622816791 3

Question Number $^{\circ}$ 74 Question Id = 536228431f Question Type = MCQ Option Shuffling : No Is Question Mandatory , No

Correct Marks: 2 Wrung Marks: 0

In a binary max heap containing in numbers, the smallest element can be found in time.

(1) O(n)

(2) O(log₂ n)

(3) O(1)

(4) $O(\log_2 \log_2 n)$

Options:

53622816793 1

53622816794 2

53622816795. 3

53622816796 4

Question Number , 74 Question Id -5362284311 Question Type ; MCQ Option Shuffling ; No Is Question Mandatory ; No

Correct Marks ; 2 Wrong Marks : 0

In a binary max heap containing n numbers, the smallest element can be found in time

(1) O(n)

(2) O(log₂ n)

(3) O(1)

(4) O(log_ log_ n)

Options:

53622816793 .

53622816794 2

53622816795. 3

53622816796 4

Question Number . 75 Question Id : 5362284312 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks : 0

If algorith n A and another algorithm B take $\log_2(n)$ and \sqrt{n} in croseconds, respectively to solve a problem, then the largest size n of a problem these algorithms can solve respectively in one second are — and

(1) 2¹⁰⁶ and 106

(2) $2^{10^{5}}$ and 10^{12}

(3) 2^{10^6} and 6.106

(4) 2^{10°} and 6.10¹²

Options:

53622816797 .

53622816798 2

53622816799 3

Question Number : 75 Question Id 5362284312 Question Type . MCQ Option Shuffling No Is Question Mandatory . No Correct Marks 2 Wrong Marks : 0 If algorith in A and another algorithm B take $\log_3(n)$ and \sqrt{n} in croseconds, respectively to solve a problem, then the largest size in of a problem these algorithms can solve respectively in one second are and and (2) 2^{10^6} and 10^{13} (3) 2^{10^6} and $6 \cdot 10^6$ (4) 2^{10^6} and $6 \cdot 10^{12}$

Options:

53622816797 . 53622816798 2 53622816799 3 53622816800 4

Question Number $\,$ 76 Question Id $\,$ 5362284313 Question Type $\,$ MCQ Option Shulffling $\,$ No is Question Mandatory $\,$ No $\,$

Correct Marks: 2 Wrong Marks: 0

Let G be a directed graph whose vertex set is the set of numbers from 1 to 100. There is an edge from a vertex t to a vertex j, if and only if either j, $i \neq 1$ or j = 3. The minimum number of edges in a path in G from vertex 1 to vertex 100 is

(1) 23

(2) 99

(3) 4

(4) 7

Options:

53622816801 . 53622816802 2

53622816803 3

53622816804 4

Question Number • 76 Question Id : 5362284313 Question Type • MCQ Option Shuffling No Is Question Mandatory • No

Correct Marks: 2 Wrong Marks: 0

Let G be a directed graph whose vertex set is the set of numbers from 1 to 100. There is an edge from a vertex i to a vertex j if and only if either j i+1 or j-3. The minimum number of edges in a path in G from vertex 1 to vertex 100 is

(1) 23

(2) = 99

(3) 4

(4) 7

Options:

53622816801 1

53622816802. 7

53622816803 3

Question Number : 77 Question Id 5362284314 Question Type , MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks 2 Wrong Marks: 0

Consider $L = L_1 \sqcap L_2$

Where $L_1 = \{0^m 1^m 20^n 1^n | m, n \ge 0\}$

$$L_2 = \{0^m 1^n 2^k \mid m, n, k \ge 0\}$$

Then, the language L is

- (1) Recursively enumerable but not context free
- (2) Regular
- (3) Context free but not regular
- (4) Not recursive

Options:

53622816805 .

53622816806 2

53622816807 3

53622816808. 4

Question Number: 77 Question Id., 5362284314 Question Type. MCQ Option Shuffling No Is Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Consider $L = L_1 \sqcap L_2$

Where $L_1 = \{0^m 1^m 20^n 1^n | m, n \ge 0\}$

$$L_T = \{0^m 1^n 2^k \mid m, n, k \ge 0\}$$

Then, the language L is

- (1) Recursively enumerable but not context free
- (2) Regular
- (3) Context free but not regular
- (4) Not recursive

Options:

53622816805 .

53622816806. 2

53622816807 3

53622816808. 4

Question Number • 78 Question Id 5362284315 Question Type • MCQ Option Shuffling No Is Question Mandatory • No

Let L_1 and L_2 be languages over $\sum \{a,b\}$ represented by the regular expressions $a^*+b)^*$ and $(a+b)^*$ respectively

Which of the following is true with respect to the two languages?

(1)
$$L_1 \subseteq L_2$$

(3)
$$L_1 = L_2$$

(4)
$$L_1 \cap L_2 = \phi$$

Options:

Question Number : 78 Question Id , 5362284315 Question Type $^\circ$ MCQ Option Shuffling . No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Let L_1 and L_2 be languages over $\sum \{a,b\}$ represented by the regular expressions $(a^*+b)^*$ and $(a+b)^*$ respectively

Which of the following is true with respect to the two languages?

$$(1) L_1 \subset L_2$$

(2)
$$L_2 \subset L_1$$

(3)
$$L_1 = L_2$$

$$(4) \quad L_1 \cap L_2 = \phi$$

Options:

53622816809 .

536228168.0 2

536228168 1 3

536228168 2 4

Question Number , 79 Question Id : 5362284316 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks * 2 Wrong Marks : 0

Which of the following statements is true?

- The union of two context free languages is context free.
- (2) The intersection of two context free languages is context free
- (3) The complement of a context free language is context free.
- If a language is context free it can always be accepted by a deterministic pushdown automaton

Options:

536228168.3 .

536228168.4 2

536228168 5 3

536228168.6 4

Question Number . 79 Question Id . 5362284316 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks 2 Wrong Marks : 0

Which of the following statements is true?

- (1) The union of two context free languages is context free.
- (2) The intersection of two context free languages is context free
- (3) The complement of a context free language is context free.
- 64. If a language is context free it can always be accepted by a deterministic pushdown automaton

Options:

536228168 3 .

536228168.4 2

536228168 5. 3.

536228168.6 4

Question Number 80 Question Id 5362284317 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks • 2 Wrong Marks • 0

Which of the following is not an intermediate code form?

Syntax trees

(2) Three address codes

(3) Quadrupules

(4) Post-fix Notation

Options:

536228168.7 .

536228168 8. 2

536228168 9 3

53622816820 4

Question Number $^\circ$ 80 Question Id . 5362284317 Question Type MCQ Option Shuffling No is Question Mandatory ; No

Correct Marks: 2 Wrong Marks: 0

Which of the following is not an intermediate code form?

Syntax trees

(2) Three address codes

(S) Quadrupules

(4) Post fix Notation

Options:

536228168.7 .

53622816818 2

536228168 9 3

53622816820. 4

Question Number : 81 Question Id : 5362284318 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Consider a code with only four valid code words 000000000 0000011111 1111100000 and 111111111 This code has distance 5. If the code word arrived is 0000000111 then the original code word must be

(1) 0000011111

(2) 00000000000

(3) 11111100000

(4) 111111111111

Options:

53622816821 ...

53622816822 2

53622816823 3

53622816824 4

Question Number 81 Question Id 5362284318 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks • 2 Wrong Marks : 0

Consider a code with only four valid code words 0000000000. 0000011111 1111100000 and 111111111 This code has distance 5. If the code word arrived is 0000000111 then the original code word must be

(1) 0000011111

(2) 00000000000

(3) 11111100000

(4) 11111111111

Options:

53622816821 .

53622816822 2

53622816823 3

53622816824 4

Question Number 82 Question Id 5362284319 Question Type MCQ Option Shuffling No is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Using R5A public key cryptosystem, if P=3, q=11 and d=7 find the value of e and encrypt the number 19'

(1) 20, 19

(2) 33, 11

(3) 3, 28

(4) 77, 28

Options:

53622816825. .

53622816826 2

53622816827 3

53622816828. 4

Question Number , 82 Question Id , 5362284319 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks ; 0

Using RSA public key cryptosystem, if P=3, q=11 and d=7 find the value of e and encrypt the number '19'

(1) 20, 19

(2) 33, 11

(3) 3, 28

(4) 77, 28

Options:

53622816825 1

53622816826 2

53622816827 3

53622816828 4

Question Number , 83 Question Id , 5362284320 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks : 0

Protocols in which the sender sends one frame and then waits for an acknowledgement before proceeding for next frame are called as

(1) Simplex protocols

(2) Unrestricted simplex protocols

(3) Simplex stop and wait protocols

(4) Restricted simplex protocols

Options:

53622816829

53622816830 2

53622816831 3

53622816832 4

Question Number , 83 Question Id : 5362284320 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Protocols in which the sender sends one frame and then waits for an acknowledgement before proceeding for next frame are called as

(1) Simplex protocols

(2) Unrestricted simplex protocols

3) Simplex stop and wait protocols

(4) Restricted simplex protocols.

Options:

53622816829 .

53622816830 2

53622816831 3

53622816832 4

Question Number , 84 Question Id 5362284321 Question Type , MCQ Option Shuffling , No Is Question Mandatory No

The perio	d of a signal is 100n	as. Then the frequen	cy of t	his signal in kilohertz is
(1) 10		(2)	10.1	
(3) 10	2	(4)	101.3	
Options .				
3622816833	A			
3622816834	2			
3622816835	3			
3622816836	4			
Question Nu Mandatory :		5362284321 Question	Type 1	MCQ Option Shuffling No Is Question
-	ks: 2 Wrong Marks:	D		
The perio	d of a signal is 100n	ns. Then the frequen	ey of t	his signal in kilohertz is
(1) 10		(2)	10-1	
(3) 10	2,	(4)	10. 3	
options :				
1622816833	A			
3622816834	2			
3622816835	3			
3622816836	. 4			
Juestion Nur Mandatory		: 5362284322 Question	fype . I	MCQ Option Shuffling . No Is Question
	ks : 2 Wrong Marks : 6	D-		
The proces	s of removing detail	ls from a given state	repres	entation is called
(1) Ext	raction.	(2)	Miniz	1g
(3) Sele	ection	(4)	Abstr	action
ptions :				
3622816837				
3622816838				
3622816839				
3622816840				
Question Nur Mandatory :		. 5362284322 Question	Type . I	MCQ Option Shuffling . No Is Question
	ks 2 Wrong Marks : (n		
STATES THE	and the same of th			

The process of removing details from a given state representation is called

(1) Extraction

(2) Mining

(3) Selection

(4) Abstraction

Options:

53622816837 . 53622816838 2 53622816839 3 53622816840 4

Question Number: 86 Question Id 5362284323 Question Type: MCQ Option Shuffling: No Is Question

Mandatory · No.

Correct Marks: 2 Wrong Marks: 0

Which of the following is NOT true in problem solving to artificial intelligence.

- Implements heuristic search techniques
- (2) Solution steps are not explicit
- (3) Knowledge is imprecise
- (4) It works on or implements repetition mechanism

Options:

54622816841 1

53622816842, 2

53622816843 3

53622816844 4

Question Number $^\circ$ 86 Question Id $^\circ$ 5362284323 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory $^\circ$ No

Correct Marks: 2 Wrong Marks: 0

Which of the following is NOT true in problem solving in artificial intelligence"

- Implements heuristic search techniques
- (2) Solution steps are not explicit
- (3) Knowledge is imprecise
- (4) It works on or implements repetation mechanism

Options:

53622816841 .

53622816842 2

53622816843 3

53622816844 4

Question Number $^\circ$ 87 Question Id = 5362284324 Question Type = MCQ Option Shuffling $^\circ$ No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

If f(x) = x is my friend, and p(x) = x is perfect, then correct logical translation of the statement "some of my friends are not perfect" is

(1)
$$\forall_x (f(x) \land \neg p(x))$$

(2)
$$\mathbf{I}_{\mathbf{x}}(f(\mathbf{x}) \wedge \mathbf{p}(\mathbf{x}))$$

(3)
$$\tau (f(x) \wedge \tau p(x))$$

(4)
$$\exists_x (\neg f(x) \land \neg p(x))$$

Options :

53622816845 .

53622816846 2

53622816847 3

53622816848 4

Question Number 87 Question Id 5362284324 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

If f(x) = x is my friend, and g(x) = x is perfect, then correct logical translation of the statement "some of my friends are not perfect" is

(1)
$$\forall_x (f(x) \land \neg p(x))$$

(2)
$$\mathbf{I}_x \left(f(x) \wedge \neg p(x) \right)$$

(3)
$$\tau (f(x) \wedge \tau p(x))$$

(4)
$$\exists_x (\neg f(x) \land \neg p(x))$$

Options:

53622816845 .

53622816846. 2

53622816847 3

53622816848 4

Question Number 88 Question Id 5362284325 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

What kind of clauses are available in conjunctive normal form?

- (1) Distunction of literals
- (2) Disjunction of variables
- (3) Conjunction of Literals
- (4) Conjunction of variables

Options:

53622816849 .

53622816850 2

53622816851 3

53622816852 4

Question Number 88 Question Id 5362284325 Question Type MCQ Option Shuffling No Is Question Mandatory; No

Correct Marks • 2 Wrong Marks : 0

What kind of clauses are available in conjunctive normal form?

- (1) Disjunction of literals
- (2) Disjunction of variables
- (3) Conjunction of literals
- (4) Conjunction of variables

Options:

53622816849 .

53622816850 2

53622816851 3

53622816852. 4

Question Number 89 Question Id 5362284326 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks . 2 Wrong Marks : 0

Consider the following properties

- A. Reflexive
- B. Antisymmetric
- C. Symmetric

Let $A = \{a, b \in a, e, f \mid g \mid \text{ and } R = \{(a, a \mid (b \mid b) \mid (e \mid d) \mid (e \mid g) \mid (e \mid e) \mid (f \mid f) \mid (g, g)\}$ be a relation on A. Which of the following property (properties) is are) satisfied by the relation \mathbb{R}^{9}

- (1) Only A
- (2) Only C
- (3) Both A and B
- (4) B and not A

Options:

53622816853 .

53622816854 2

53622816855 3

53622816856 4

Question Number 89 Question Id - 5362284326 Question Type , MCQ Option Shuffling No Is Question Mandatory . No

Consider the following properties

- A. Reflexive
- B. Antisymmetric
- C. Symmetric

Let $A = \{a, b \in a, e, f \mid g \mid \text{ and } R = \{(a, a), (b \mid b), (c \mid d), (c \mid g) \mid (d \mid g), (e \mid e) \mid (f, f) \mid (g, g)\}$ be a relation on A. Which of the following property (properties) is larger satisfied by the relation \mathbb{R}^n

- (1) Only A
- (2) Only C
- (3) Both A and B
- (4) B and not A

Options:

53622816853 .

53622816854 2

53622816855. 3

53622816856 4

Question Number , 90 Question Id : 5362284327 Question Type , MCQ Option Shuffling , No Is Question Mandatory No

Correct Marks . 2 Wrong Marks : 0

Consider the following argument with premise $\forall_x (P|x) \lor Q|x)$ and conclusion $(\forall_x P(x)) \land (\forall_x Q(x))$

(A)	$\forall_x (P(x) \lor Q(x))$	Premise
(B)	$P(\varepsilon) \vee Q(\varepsilon)$	Universal instantiation from (A)
(C)	P(c)	Simplification from (B)
(D)	$\forall_x P(x)$	Universa, Generalization of (C)
(E)	$Q(\varepsilon)$	Simplification from (B)
(F)	$\forall_x Q(x)$	Universal Generalization of (E)
(G)	$(\forall_x P(x)) \land (\forall_x Q(x))$	Conjunction of (D) and (F)

- (1) This is a valid argument.
- (2) Steps (C) and (E) are not correct inferences
- (3) Steps (D) and (F) are not correct inferences
- 4) Step (G) is not a correct inference

Options:

53622816857 .

53622816858 2

53622816859 3

Question Number , 90 Question 1d 5362284327 Question Type , MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

Consider the following argument with premise $\forall_x (P(x) \lor Q, \chi)$ and conclusion $(\forall_x P(x)) \land (\forall_x Q(x))$

(A)	$\forall_x (P(x) \lor Q(x))$	Premise
(B)	$P(c) \lor Q(c)$	Universal instantiation from (A)
{C}	P(c)	Simplification from (B)
(D)	$\forall_x P(x)$	Universal Generalization of (C)
(E)	Q(c)	Simplification from (B)
(F)	$\forall_x Q(x)$	Universa, Generalization of (E)
(G)	$(\forall_x P(x)) \land (\forall_x Q(x))$	Conjunction of (D) and (F)

- This is a valid argument.
- 2) Steps (C) and (E, are not correct inferences
- (3) Steps (D) and (F) are not correct inferences
- 4) Step (G) is not a correct inference

Options:

53622816857 1

53622816858. 2

53622816859 3

53622816860 4

Question Number 91 Question Id 5362284328 Question Type · MCQ Option Shuffling · No Is Question Mandatory No

Correct Marks : 2 Wrong Marks : 0

Which of the following are applications of symbol table?

- (A) Storage allocation
- (B) Checking type compatability
- (C) Suppressing duplicate error messages

Choose the correct answer from the options given below

(1) (A, and (B) only

(2, (A) and (C) only

(3) (B) and (C) only

(4) (A). (B) and (C)

Options:

53622816861 .

Question Number • 91 Question Id . 5362284328 Question Type MCQ Option Shuffling ; No Is Question Mandatory No

Correct Marks : 2 Wrong Marks : 0

Which of the following are applications of symbol table?

- (A) Storage allocation
- (B) Checking type compatability
- (C) Suppressing duplicate error messages

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A). (B) and (C)

Options:

53622816861 ...

53622816862 2

53622816863 3

53622816864 4

Question Number , 92 Question Id , 5362284329 Question Type , MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Simplified expression/s for following Boolean function

 $F(A, B, C, D) = \sum (0, 1, 2, 3, 6, 12, 13, 14, 15)$ is/are

- (A) A'B' + AB + AC'D'
- (B) AB' + AB + A'CD
- A'B' + AB + BC'D'
- (D) AB' + AB + BCD'

Choose the correct answer from the options given below:

(1) (A) only

(2) (B) only

(3) (A) and (B) only

(4) (B) and (D) only

Options:

53622816865 .

53622816866 2

53622816867 3

53622816868. 4

Question Number 92 Question Id 5362284329 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks 2 Wrong Marks: 0

Simplified expression/s for following Boolean function

 $F(A, B, C, D) = \sum (0, 1, 2, 3, 6, 12, 13, 14, 15)$ is/are

- $\langle A \rangle = A'B' + AB + AC'D'$
- (B) AB' + AB + A'CD
- (C) AB' + AB + BC'D'
- (D) A'B' + AB + BCD'

Choose the correct answer from the options given below:

(1) (A) only

(2) (B) only

(3) (A) and (B) only

(4) (B) and (D) only

Options:

53622816865 .

53622816866 2

53622816867 3

53622816868 4

Question Number , 93 Question Id : 5362284330 Question Type : MCQ Option Shuffling : No Is Question Mandatory . No

Correct Marks 2 Wrong Marks: 0

Which of the following statements with respect to K segment pipelining are true?

- (A) Maximum speedup that a pipeline can provide is k theoretically
- (B) It is impossible to achieve it aximum speedup k in ${\bf k}$ segment pipeline
- (C) All segments in pipeline take same time in computation.

Choose the correct answer from the options given below:

(1) (A) and (B) only

(2) (B) and (C) only

(8) (A) and (C) only

(4) (A) (B) and (C)

Options:

53622816869 ...

54622816870 2

53622816871 3

53622816872 4

Question Number 93 Question Id 5362284330 Question Type MCQ Option Shuffling No Is Question Mandatory; No

Correct Marks : 2 Wrong Marks : 0

Which of the following statements with respect to K segment pipelining are true?

- (A) Maximum speedup that a pipeline can provide is k theoretically
- (B) It is impossible to achieve it aximum speedup k in k segment pipeline
- (C) All segments in pipeline take same time in computation.

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (B) and (C) only

(3) (A) and (C) only

(4) (A) (B) and (C)

Options:

53622816869 ...

53622816870 2

53622816871 3

53622816872 4

Question Number , 94 Question Id : 5362284331 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks • 2 Wrong Marks : 0

Which of the following statements with respect to multiprocessor system are true"

- (A) Multiprocessor system is controlled by one operating system.
- (B) In Multiprocessor system, multiple computers are connected by the means of communication lines.
- (C) Multiprocessor system is classified as multiple instruction stream and multiple data stream system.

Choose the correct answer from the options given below

(1) (A) only

(2) (A) and B) on v

(3) (A) and (C) only

(4) (B) and (C) only

Options:

53622816873 .

53622816874 2

53622816875 3

53622816876. 4

Question Number $^\circ$ 94 Question Id $^\circ$ 5362284331 Question Type : MCQ Option Shuffling No Is Question Mandatory . No

Which of the following statements with respect to multiprocessor system are true"

- (A) Multiprocessor system is controlled by one operating system.
- (B) In Multiprocessor system, multiple computers are connected by the means of communication lines.
- (C) Multiprocessor system is classified as multiple instruction stream and multiple data stream system.

Choose the correct answer from the options given below:

(1) (A) only

(2) (A) and (B) only

(S) (A) and (C) only

(4) (B) and (C) only

Options:

53622816873 1

53622816874 2

53622816875. 3

53622816876 4

Question Number , 95 Question Id : 5362284332 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

Which of the following statements regarding XML is are Frie?

- A, XML is a set of tags designed to tell browsers how to display text and images in a web page.
- (B XMI defines a syntax for representing data but the meaning of data varies from application to application.
- C) < Letter > < IETTER > and < lette > are three different tags in XML.

Choose the correct answer from the options given below:

(1) (A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A), B) and (C)

Options:

53622816877

53622816878 2

53622816879 3

53622816880 4

Question Number , 95 Question Id 5362284332 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Which of the following statements regarding XML is are True?

- (A) XML is a set of tags designed to tell browsers how to display text and images in a web-page.
- (B) XMI defines a syntax for representing data but the meaning of data varies from application to application.
- C) < Letter > < IETTER > and < lette > are three different tags in XML.

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A), B) and (C)

Options :

53622816877 .

53622816878. 2

53622816879 3

53622816880, 4

Question Number: 96 Question Id 5362284333 Question Type: MCQ Option Shuffling No Is Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

In the context of 3D Computer graphics, which of the following statements is are correct"

- (A) Under perspective projection, each set of parallel lines in the object do not stay parallel in the image (except those that are parallel to the viewplane to start with).
- (B) Applying a perspective transformation in the graphics pipeline to a vertex involves dividing by its z coordinate
- (C) Perspect ve transformation is a linear transformation.

Choose the correct answer from the options given below.

(A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A), (B) and (C)

Options:

53622816881 .

53622816882. 2

53622816883 3

53622816884 4

Question Number 96 Question Id : 5362284333 Question Type MCQ Option Shuffling No Is Question Mandatory ' No

In the context of 3D Computer graphics, which of the following statements is are correct"

- A) Under perspective projection, each set of parallel lines in the object do not stay parallel in the image (except those that are parallel to the viewplane to start with
- B) Applying a perspective transformation in the graphics pipeline to a vertex involves dividing by its z coordinate.
- (C) Perspective transformation is a linear transformation.

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A), (B) and (C)

Options:

53622816881 .

53622816882. 2

53622816883 3

53622816884 4

Question Number ' 97 Question Id ' 5362284334 Question Type ' MCQ Option Shuffling ' No is Question Mandstory , No

Correct Marks: 2 Wrong Marks: 0

Concerning phong shading and Gouraud shading in a 3D scene which of the following statements are true?

- (A) Gourand shading requires more computation than phong shading.
- (B) Gouraud shading Linearly interpolates the color of an interior pixel from the color at the vertices
- (C Phong shading interpolates over the normal vectors specified at the vertices

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A) (B) and (C)

Options:

53622816885 .

53622816886, 2

53622816887 3

53622816888 4

Question Number 97 Question Id , 5362284334 Question Type MCQ Option Shuffling 'No Is Question Mandatory , No

Concerning phong shading and Gouraud shading in a 3D scene which of the following statements are true?

- (A) Gourand shading requires more computation than phong shading
- (B) Gouraud shading Linearly interpolates the color of an interior pixel from the color at the vertices
- (C Phong shading interpolates over the normal vectors specified at the vertices

Choose the correct answer from the options given below

(1) (A) and (B, only

(2) (A) and (C) only

(3) (B) and (C) only

(4) (A) (B) and (C)

Options:

53622816885 .

53622816886. 2

53622816887 3

53622816888. 4

Question Number • 98 Question 1d 5362284335 Question Type • MCQ Option Shuffling • No Is Question Mandatory • No

Correct Marks: 2 Wrong Marks: 0

In the context of concurrency control, a given pair of operations in a schedule is called conflict schedule if

- (A) At least one of the operations is write operation.
- (B) Both the operations are performed on the same data item.
- (C) Both the operations are performed by different transactions.
- (D) Both the operations are performed on different data items

Choose the correct answer from the options given below.

(A) and (B) only

(2) (A), (B) and (C) only

(3) (A), (C) and (D) only

(4) (C) and (D) only

Options:

53622816889 1

53622816890 2

53622816891 3

53622816892 4

Question Number 98 Question Id 5362284335 Question Type MCQ Option Shuffling No Is Question Mandatory . No

In the context of concurrency control, a given pair of operations in a schedule is called conflict schedule if

- (A) At least one of the operations is write operation.
- (B) Both the operations are performed on the same data item.
- (C) Both the operations are performed by different transactions.
- (D) Both the operations are performed on different data items

Choose the correct answer from the options given below.

(1) (A) and (B) only

- (2) (A), (B) and (C) only
- (3) (A), (C) and (D) only
- (4) (C) and (D) only

Options:

53622816889 ...

53622816890 2

53622816891 3

53622816892 4

Question Number 99 Question Id $\,$ 5362284336 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory , No

Correct Marks * 2 Wrong Marks : 0

Software reliability is described with respect to

- (A) Execution Time
- (B) Calendar Time
- (C) Clock Time

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (B) and (C) only

(S) (A), (B) and (C)

(4) (A) and (C) only

Options:

53622816893 1

53622816894 2

53622816895 3

53622816896 4

Question Number : 99 Question Id : 5362284336 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

Software reliability is described with respect to

- (A) Execution Time
- (B) Calendar Time
- (C) Clock Time

Choose the correct answer from the options given below:

(1) (A) and (B) only

(2) (B) and (C) only

(3) (A), (B) and (C)

(4) (A) and (C) only

Options:

53622816893 .

53622816894 2

53622816895. 3

53622816896 4

Question Number , 100 Question Id -5362284337 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks 2 Wrong Marks: 0

To create an object behavioral model, the analyst performs the following steps.

- (A) Evaluates all use cases
- (B) Builds state transition diagram for the system,
- (C Reviews the object behaviour model to verify accuracy and consistency
- (D) Identifies events that do not derive the interaction sequence

Choose the correct answer from the options given below:

(1) (A), (B) and (C) only

(2) (A), (B) and (D) only

(3) (B), (C) and (D) only

(4) (A), (C) and (D) only

Options:

53622816897

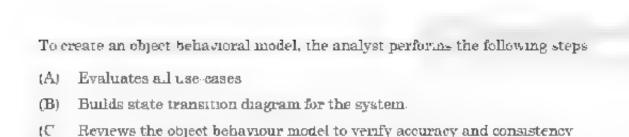
53622816898 2

53622816839 3

53622816900 4

Question Number , 100 Question Id , 5362284337 Question Type , MCQ Option Shuffling , No Is Question Mandatory No

Correct Marks ; 2 Wrnng Marks ; 0



Identifies events that do not derive the interaction sequence

Choose the correct answer from the options given below

(1) (A), (B) and (C) only

(2) (A), (B) and (D) only

(3) (B), (C) and (D) only

(4) (A), (C) and (D) only

Options:

(D)

53622816897 .

53622816898. 2

53622816899 3

53622816900. 4

Question Number : 101 Question id 5362284338 Question Type : MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Which of the following is are behavioral testing techniquess?

- (A) Equivalence Partitioning
- (B) Graph Based Teating Method
- (C) Boundery Value Analysis
- (D) Data flow Testing
- (E) Loop Testing

Choose the correct answer from the options given below

(1) (B) and (D) only

(2) (A), (B) and C) only

(3) (D) and (E) only

(4) (A), (C) and E) only

Options:

53622816901 1

53622816902 2

53622816903 3

53622816904 4

Question Number -101 Question Id. 5362284338 Question Type -MCQ Option Shuffling . No Is Question Mandatory : No

Which of the following is are behavioral testing technique(s)?

- (A) Equivalence Part.tioning
- (B) Graph Based Teating Method
- (C) Boundary Value Analysis
- (D) Data flow Testing
- (E) Loop Testing

Choose the correct answer from the options given below;

(1) (B) and (D) only

(2) (A), (B) and (C) only

(3) (D) and (E) only

(4) (A), (C) and E) only

Options:

53622816901 .

53622816902 2

53622816963 3

53622816904 4

Question Number: 102 Question Id 5362284339 Question Type MCQ Option Shuffling No Is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

The running time of an algorithm is O(g(n)) if and only if

- A its worst case running time is O(g(n)) and its best case running time is $\Omega(g(n))$ (0 = big O).
- (B) its worst-case running time is $\Omega(g(n))$ and its best-case running time is O(g(n)).(O-big|O)
- (C) $O(g(n)) \cap \Omega(g(n))(O \text{ big } O)$
- (D) $O(g(n)) \cap \omega(g(n))$ is non-empty set. (o small o)

Choose the correct answer from the options given below

(1) (A) only

(2) (B) only

(C) only

(4) (D) only

Options:

53622816905 .

53622816906. 2

53622816907 3

53622816908 4

Question Number : 102 Question Id : 5362284339 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

The running time of an algorithm is O(g(n)) if and only if

- (A, its worst case running time is O(g(n)) and its best case running time is $\Omega(g(n))$ (O = big O)
- B) its worst-case running time is $\Omega(g(n))$ and its best-case running time is O(g(n)), (O big O)
- (C) $O(g(n)) = \Omega(g(n))(O \log O)$
- (D) $O(g(n)) \cap \omega(g(n))$ is non-empty set, (o small o)

Choose the correct answer from the options given below

(A) only

(2) (B) only

(3) (C) only

(4) (D only

Options:

53622816905 ...

53622816906 2

53622816907 3

53622816908 4

Question Number 103 Question Id 5362284340 Question Type . MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Consider the following statements:

- (A) Any tree is 2-colorable
- (B) A graph G has no cycles of even length if it is bipartite
- (C) A graph G is 2-colorable if is bipartite
- (D) A graph G can be colored with d+1 colors if d is the maximum degree of any vertex in the graph G
- (E) A graph G can be colored with $O(\log |J|)$ colors if it has O(|J|) edges

Choose the correct answer from the options given below:

- (C) and (E) are incorrect
- (2) (B) and (C) are incorrect
- (3) (B) and (E) are incorrect
- (4) (A) and (D) are incorrect

Options:

53622816909 .

53622816910. 2

53622816911 3

536228169.2.4

Question Number · 103 Question Id · 5362284340 Question Type · MCQ Option Shuffling · No Is Question Mandatory No

Consider the following statements:

- (A) Any tree is 2-colorable
- (B) A graph G has no cycles of even length if it is bipartite
- (C) A graph G is 2-colorable if a bipartite
- (D) A graph G can be colored with d+1 colors if d is the maximum degree of any vertex in the graph G
- (E) A graph G can be colored with $O(\log |v|)$ colors if it has O(|v|) edges.

Choose the correct answer from the options given below

- (1) (C) and (E) are incorrect
- (2) (B) and (C) are incorrect
- (S) (B) and (E) are incorrect
- (4) (A) and (D) are incorrect

Options:

53622816909

536228169.0 2

536228169 . 3

53622816912 4

Question Number , 104 Question Id , 5362284341 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

Which among the following statement(s) is (are) true?

- (A) A hash function takes a message of arbitrary length and generates a fixed length code
- (B) A hash function takes a message of fixed length and generates a code of variable length.
- (C) A hash function may give same hash value for distinct messages

Choose the correct answer from the options given below

(1) (A) only

(2) (B) and (C) only

(3) (A) and (C) only

(4) (B) only

Options:

53622816913

536228169.4 2

536228169 5. 3

536228169.6 4

Question Number 104 Question Id 5362284341 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Which among the following statement(s) is (are) true?

- (A) A hash function takes a message of arbitrary length and generates a fixed length code
- (B) A hash function taxes a message of fixed length and generates a code of variable length.
- (C) A hash function may give same hash value for distinct messages

Choose the correct answer from the options given below

(A) only

(2) (B) and (C) only

(3) (A) and (C) only

(4) (B) only

Options :

536228169.3 .

53622816914 2

536228169 5 3

536228169 6.4

Question Number , 105 Question Id , 5362284342 Question Type , MCQ Option Shuffling , No is Question Mandatory $^{\circ}$ No

Correct Marks : 2 Wrong Marks : 0

Let G_1 and G_2 be arbitrary context free languages and R an arbitrary regular language Consider the following problems:

- (A) Is $L(G_1) = L(G_2)^{\gamma}$
- (B) Is L(G₂) ≤ L(G₁)?
- (C) Is $I(G_1) = R^{\gamma}$

Which of the problems are undecidable?

Choose the correct answer from the options given below

(1) (A) only

(2) (B) only

(3) (A) and (B) only

(4) (A), (B) and (C)

Options:

536228169.7 .

53622816918. 2

53622816919 3

53622816920. 4

Question Number : 105 Question Id : 5362284342 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

Let G_1 and G_2 be arbitrary context free languages and R an arbitrary regular language Consider the following problems:

(A) Is
$$L(G_1) = L(G_2)^{\gamma}$$

Which of the problems are undecidable?

Choose the correct answer from the options given below

Options:

536228169.7 .

53622816918. 2

536228169.9.3

53622816920 4

Question Number · 106 Question Id · 5362284343 Question Type · MCQ Option Shuffling · No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Consider the following languages

$$L_1 = \left[a^{\hat{z}^x} \mid \hat{Z} \text{ is an integer} \right]$$

$$L_2 = \{a^{xx} \mid \hat{Z} \ge 0\}$$

$$L_3 = \{\omega\omega \mid \omega\varepsilon \{a\ b\}^*\}$$

Which of the languages is (are) regular⁹

Choose the correct answer from the options given below:

(1)
$$L_1$$
 and L_2 only

(2)
$$L_1$$
 and L_3 only

(4)
$$L_2$$
 only

Options:

53622816921

53622816922. 2

53622816923 3

53622816924 4

Question Number : 106 Question Id 5362284343 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Consider the following languages

$$I_1 = \{a^{\hat{x}^{\hat{x}}} \mid \hat{Z} \text{ is an integer}\}$$

$$L_2 = \{a^{xx} \mid \dot{Z} \ge 0\}$$

$$L_3 = \{\omega\omega \mid \omega\varepsilon \{a\ b\}^*\}$$

Which of the languages is (are) regular?

Choose the correct answer from the options given below:

(1) L_1 and L_2 only

(2) L_1 and L_3 only

(3) L_1 only

(4) L_2 only

Options:

53622816921 .

53622816922 2

53622816923. 3

53622816924 4

Question Number 107 Question Id 5362284344 Question Type . MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

Which of the following grammars is (are) ambiguous?

$$(C)$$
 $s + aAB$

$$A \rightarrow bBb$$

$$B \rightarrow A|\lambda$$
 where λ denotes empty string

Choose the correct answer from the options given below

(A) and C) only

(2) (B)only

(3) (B) and (C) only

(4) (A) and (B) only

Options:

53622816925 .

53622816926 2

53622816927 3

53622816928 4

Question Number , 107 Question Id , 5362284344 Question Type , MCQ Option Shuffling . No Is Question Mandatory , No $\,$

Which of the following grammars is (are) ambiguous?

- (A) s +ss asb bsa \lambda
- B) s + asbs | bsas | A
- (C) s * aAB
 - $A \rightarrow bBb$
 - $B \rightarrow A[\lambda]$ where λ denotes empty string

Choose the correct answer from the options given below

(1) (A) and C) only

(2) (B) only

(3) (B) and (C) only

(4) (A) and (B) only

Options:

53622816925 .

53622816926 2

53622816927 3

53622816928. 4

Question Number , 108 Question Id 5362284345 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

Which of the following cloud concept, sustare related to pooling and sharing of resources?

- A) Virtual Memory
- (B) Service
- (C) Virtualization

Choose the correct answer from the options given below

(C) only

(2) (A, and (B) only

(3) (A) only

(4) (B) only

Options:

53622816929 ...

53622816930 2

53622816931 3

53622816932 4

Question Number : 108 Question Id -5362284345 Question Type -MCQ Option Shuffling -No Is Question Mandatory . No

Wh	ich of the following cloud cond	epi sus are relat	ed to pooling and shar	ng of resources		
A)	Virtual Memory					
(B)	Service					
(7)	Virtualization					
Ch	oose the correct answer from t	he options given	below			
(1)	(C) only	(2)	(A) and (B) only			
(3)	(A) only	(4)				
3622 3622	816929 1 816930 2 816931 3 816932 4					
VEROD	ion Number , 169 Question Id , 53 latory , No ect Marks : 2 Wrung Marks : 0	62284346 Question	Type , MCQ Option Shu	ffiing . No Is Question		
	office protoco. (POP) is a meant in this regard, which of the			extract message for		
(A)	POP has two modes, Delete r	node and keep				
(B)	In Delete mode mail is delete	ed from mail box	after each retrival			
(€)	In Delete mode mail is deleted from mail box before each retrieval					
(D)	In keep mode, mail is deleted	before retrival				
(E)	In keep mode, mail remains i	n mail box after	retrival			
Char	ose the correct answer from th	e ontions given k	nalow			
	(A) and (B) only		(A), (D) and (E) only			
	(A), (B), (C) and (D) only	•	(A), (B and (E) only			
Optio 53622 53622 53622						
^L	: N	7330 13 17 Page 1	T WCO (1-6 85	00: N-1-0		

Question Number , 109 Question Id , 5362284346 Question Type - MCQ Option Shuffling , No Is Question Mandatory - No

Post office protoco. (POP) is a message access protocol which is used to extract message for chent. In this regard, which of the following are true?

- (A) POP has two modes, Delete mode and keep
- (B) In Delete mode mail is deleted from mail box after each retrival
- (C) In Delete mode mail is deleted from mail box before each retrieva.
- (D) In keep mode, mail is deleted before retrival
- (E) In keep mode, mail remains in mail box after retrival

Choose the correct answer from the options given below

(1) (A) and (B) only

- (2) (A), (D) and (E) only
- (3) (A), (B), (C) and (D) only
- (4) (A), (B and (E) only

Options:

53622816933 .

53622816934 2

53622816935 3

53622816936. 4

Question Number : 110 Question Id : 5362284347 Question Type : MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Firewall is a device that filters access to the protected network from the outside network. Firewalls can filter the packets on the basis of

- (A) Source IP Address
- (B) Destination IP Address
- (C) TCP Source Port
- (D) UDP Source Port
- (E) TCP Destination Port

Choose the correct answer from the options given below:

(1) (A), (B) and (C) only

(2) (B, and (E) only

(8) (C) and (D) only

(4) (A), (B) (C) (D) and (E) only

Options:

53622816937 .

53622816938 2

53622816939 3

53622816940 4

Question Number , 110 Question Id 5362284347 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks ; 0

Firewall is a device that filters access to the protected network from the outside network. Firewalls can filter the packets on the basis of

- (A) Source IP Address
- (B) Destruction IP Address
- (C) TCP Source Port
- (D) UDP Source Port
- (E) TCP Destination Port

Choose the correct answer from the options given below

- (1) (A), (B) and (C) only
- (2) (B. and (E) only

(3) (C) and (D) only

(4) (A) (B) (C), (D) and (E) only

Options:

53622816937

53622816938 2

53622816939 3

53622816940 4

Question Number : 111 Question Id : 5362284348 Question Type · MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks : 0

Consider the statement below.

A person who is radical (R) is electable (E) if he she is conservative (C), but otherwise is not electable.

Few probable logical assertions of the above sentence are given below

- $(R \land E) \Leftrightarrow C$
- (B) R ⇒ (E ⇔ C)
- (C) $R \Rightarrow ((C \Rightarrow E) \lor \neg E)$
- (D) $(\neg R \lor \neg E \lor C) \land (\neg R \lor \neg C \lor E)$

Which of the above logical assertions are true?

Choose the correct answer from the options given below;

(1) (B) only

(2) (C) only

(A) and (C) only

(4, (B) and (D) only

Options:

53622816941

53622816942 2

53622816943. 3

53622816944 4

Question Number . 111 Question Id : 5362284348 Question Type MCQ Option Shaffling : No Is Question Mandatory : No

Correct Marks * 2 Wrong Marks : 0

Consider the statement below

A person who is radical (R, is electable (E) if he she is conservative (C but otherwise is not electable.

Few probable logical assertions of the above sentence are given below

- (A) $(R \wedge E) \iff C$
- (B) $R \Rightarrow (E \Leftrightarrow C)$
- $_{1}\mathbb{C})$ $R \Longrightarrow ((C \Longrightarrow E) \lor _{2}E)$
- (D) $(\neg R \lor \neg E \lor C) \land (\neg R \lor \neg C \lor E)$

Which of the above logical assertions are true?

Choose the correct answer from the options given below:

(B) only

(2) (C) only

(3) (A) and (C) only

(4) (B) and (D) only

Options:

- 53622816941 .
- 53622816942 2
- 53622816943 3
- 53622816944 4

Question Number 112 Question Id 5362284349 Question Type . MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks , 2 Wrong Marks : 0

Which of the following statements are true?

- A A sentence α entails another sentence β if β is true in few worlds where α is true
- B Forward chaining and backward chaining are very natural reasoning algorithms for knowledge bases in Horn form
- C) Sound inference algorithms derive all sentences that are entailed
 - D) Propositional logic does not scale to environments of unbounded size.

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (B) and (C) only

(3) (C) and (D) only

(4) (B) and (D) only

Options:

- 53622816945 .
- 53622816946. 2
- 53622816947 3
- 53622816948. 4

Question Number : 112 Question Id 5362284349 Question Type : MCQ Option Shuffling No Is Question

Mandatory ' No.

Correct Marks: 2 Wrong Marks: 0

Which of the following statements are true?

- A A sentence α entails another sentence β if β is true in few worlds where α is true
- B) Forward chaining and backward chaining are very natural reasoning algorithms for knowledge bases in Horn form
- C) Sound inference algorithms derive all sentences that are entailed.
- D) Propositional logic does not scale to environments of unbounded size.

Choose the correct answer from the options given below

(1) (A) and (B) only

(2) (B) and (C) only

(3) (C) and (D) only

(4) (B) and (D) only

Options:

53622816945 1

53622816946 2

53622816947 3

53622816948 4

Question Number , 113 Question Id $^\circ$ 5362284350 Question Type , MCQ Option Shuffling No Is Question Mandatory No

Correct Marks , 2 Wrong Marks : 0

Which of the following statements are true?

- (A) Minimax search is breadth first; it processes all the nodes at a level before moving to a node in next level.
- The effectiveness of the alpha beta pruning is highly dependent on the order in which the states are examined.
- The sipha beta search algorithm computes the same optimal moves as minimax algorithm
- (D) Optimal play in games of imperfact information does not require reasoning about the current and future behind states of each player

Choose the correct answer from the options given below

(1) (A) and (C) only

(2) (A) and (D) only

(3) (B) and (C) only

(4) (C) and (D) only

Options:

53622816949 .

53622816950. 2

53622816951 3

53622816952 4

Question Number : 113 Question Id : 5362284350 Question Type : MCQ Option Shuffling No Is Question Mandatory No

Correct Marks * 2 Wrong Marks : 0

Which of the following statements are true?

- (A) Minimum search is breadth first; it processes all the nodes at a level before moving to a node in next level.
- (B) The effectiveness of the alpha beta pruning is highly dependent on the order in which the states are examined
- •C The alpha beta search algorithm computes the same optimal moves as minimax algorithm
- (D) Optimal play in games of imperfact information does not require reasoning about the current and future behef states of each player

Choose the correct answer from the options given below

(1) (A) and (C) only

(2) (A) and (D) only

(3) (B) and (C) only

(4) (C) and (D) only

Options:

54622816949 .

53622816950. 2

53622816951 3

53622816952 4

Question Number : 114 Question Id 5362284351 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Moton List I with List II

Let $R_1 = \{(1,1), (2,2), (3,3)\}$ and $R_2 = \{(1,1), (1,2), (1,3), (1,4)\}$

Last I

Last II

(A) $R_1 \cup R_2$

(B) R₁ R₂

(II) $\{(1,1)\}$

(C) R₁ ∩ R₂

(III) {(1,2),(1,3),(1,4)}

(D) R₂ R₁

 $(IV) \{(2,2),(3,3)\}$

Choose the correct answer from the options given below;

(1) A.I., B.II., C.IV., D.III

(2) A.I., B.IV, C.III. D.II.

(3) A I. B-HI. C II. D IV

(4) A I, B-IV, C II, D-III

Options:

53622816951 .

53622816954 2

53622816955 3

53622816956. 4

Question Number : 114 Question Id 5362284351 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Moton Last I with Last II

Let $R_1 = \{(1,1), (2,2), (3,3)\}$ and $R_2 = \{(1,1), (1,2), (1,3), (1,4)\}$

Last I

Last II

 $\{(1,1),(1,2),(1,3),(1,4),(2,2,(3,3)\}$

- $(A) = R_1 \cup R_2$
- (B) R₁ R₂
- (C) $R_1 \cap R_2$
- (D) R₂ R₁
- Choose the correct answer from the options given below:
- (1) A I, B II, C IV, D III
- (3) A I, B-III, C II, D IV

(2) A.I., B.IV., C.III. D.II.

(III) {(1.2),(1.3),(1.4)}

(IV) {(2,2),(3,3)}

(II) {(1,1)}

(4) A I, B IV, C II, D III

Options:

53622816953 .

53622816954 2

53622816955 3

53622816956. 4

Question Number 115 Question Id 5362284352 Question Type MCQ Option Shuffling No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Match Last I with Last II

Last I

- A) Handshaking
- B) Programmed I/O
- C) Interrupt in tiated I/O
- D) I/O processor

Last II

- J/O interface informs the CPU that device is ready for transfer
- (II requires two control signals working in opposite directions
- (III) has local memory & control large set of I/O devices
- (IV) require CPU to check the I/O flag & perform transfer

Choose the correct answer from the options given below

(1) A-L B-H C-HL D IV

(2) A-IL B-IV, C III. D-I

(3) A II. B IV C L D III

(4) A IV, B III, C II, D I

Options:

53622816957

53622816958 2

53622816959 3

53622816960, 4

Question Number , 115 Question Id 5362284352 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks ; 2 Wrong Marks ; 0

Match Last I with Last II

Last I

- A) Handshaking
- B) Programmed I/O
- C) Interrupt in trated I/O
- D) I/O processor

Last II

- I/O interface informs the CPU that device is ready for transfer
- tll requires two control signals working in opposite directions
- (III) has local memory & control large set of I/O devices.
- (IV) require CPU to check the I/O flag & perform transfer

Choose the correct answer from the options given below

(1) A-I, B-II, C-III, D-IV

(2) A II B IV C III D I

(3) A II. B IV C I, D III

(4) A IV, B III, C II, D I

Options:

53622816957 .

53622816958 2

53622816959 3

53622816960 4

Question Number , 116 Question Id , 5362284353 Question Type , MCQ Option Shuffling , No Is Question Mandatory $^\circ$ No

Match List I with List II. List I gives 3x3 matrices representing 2D transformations and List-II shows the corresponding transformation diagrams.

(II)

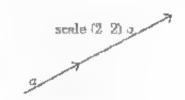
List I (Matrix)

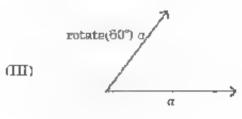


List II (Transformation Diagram)



B)
$$\begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}$$





(D)
$$\begin{bmatrix} 1 & 2 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$



Choose the correct answer from the options given below:

(1) A IV, B-II, C-III, D-I

(2) A IV B-III, C-II, D-I

- (3) A-III, B-II, C IV D-I
- (4) A. II B-IV, C-III. D. I

Options:

53622816961 1

53622816962 2

53622816963 3

53622816964 4

Question Number 116 Question Id 5362284353 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Match List I with List II. List I gives 3x3 matrices representing 2D transformations and List-II shows the corresponding transformation diagrams.

List I (Matrix)



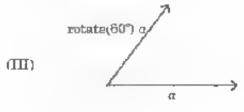






B)
$$\begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 0 & 0 & 1 \end{bmatrix}$$





(D)
$$\begin{bmatrix} 1 & 2 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$



Choose the correct answer from the options given below:

(1) A IV, B-II, C-III, D-I

(2) A IV B-III, C-II, D-I

- (3) A-III, B-II, C IV D-I
- (4) A. II B-IV, C-III. D. I

Options:

53622816961 1

53622816962 2

53622816963 3

53622816964 4

Question Number 117 Question Id 5362284354 Question Type MCQ Option Shuffling No Is Question Mandatory ' No

List I (E.R symbols)

List II (Description)

(A)

(I) Key Attribute Type

(B) —

(II) Weak Entity Type

n ()

(III) Total Participation of Entity in a relation



(IV) Multivalue Attribute type

Choose the correct answer from the options given below

- (1) A II, B IV, C III D I
- (2) A IV, B I, C II, D III
- (3) A II, B I, C IV D III
- (4) A-III B-IV C I D-II

Options:

53622816965 .

53622816966. 2

53622816967 3

53622816968 4

Question Number $^\circ$ 117 Question Id $^\circ$ 5362284354 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No is Question Mandatory No

List I (E.R. symbols)

List II (Description)

(A)

(I) Key Attribute Type

(B)

(II) Weak Entity Type



(III) Total Participation of Entity in a relation



(IV) Multivalue Attribute type

Choose the correct answer from the options given below

- (1) A II B IV, C III D I
- (2 A IV, B I, C II, D III
 - (3) A II. B I. C IV D III
- (4) A-III B-IV C I D-II

Options:

53622816965 .

53622816966. 2

53622816967 3

53622816968 4

Question Number : 118 Question Id : 5362284355 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

Match Last I with Last II

With reference to CMM developed by Software Engineering Institute (SEI)

Lást I			Last II		
A)	INITIAL	(I)	Process measurement		
B)	REPEATABLE	(Π)	Process definition		
(C)	DEFINED	(III)	Project management		
D)	MANAGED	(TV)	ADHOC		

Choose the correct answer from the options given below.

- AILBIVCHDI
- (2)A.IV. B.III. C.I. D.II.
- (3) AIV. BIII. CII DI
- (4)AILBIVCLDH

Options:

53622816969 .

53622816970 2

53622816971 3

53622816972 4

Question Number 118 Question Id 5362284355 Question Type . MCQ Option Shuffling No Is Question Mandatory · No.

Correct Marks: 2 Wrong Marks: 0.

Match Last I with Last II

With reference to CMM developed by Software Engineering Institute (SEI)

	List I		Last H	
(A)	INITIAL	(I)	Process measurement	
B)	REPEATABLE	(II)	Process definition	
(C)	DEFINED	(III)	Project management	
D)	MANAGED	(TV)	ADHOC	
Choose the correct answer from the options given below				

- AILBIVCHDI (1)
- AIV. BILL CI DIL (2)
- (3)AIV, BILL, CIL DI
- AIII BIV CLDI (4)

Options:

53622816969 .

53622816970 2

53622816971 3

Question Number 119 Question Id 5362284356 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Match List I with List II

List I		List II			
A)	Branch-and bound	(I)	Keeps track of all partial paths which can be cand date for further exploration.		
В	Steepest accent hil climbing	(11)	Detects difference between current state and goal state		
(C)	Constraint satisfaction	(Ш)	Discovers problem state(s) that satisfy a set of constraints		
D)	Means end analysis	(IV)	Considers all moves from current state and selects best move		

Choose the correct answer from the options given below

- (1) A.I. B.IV, C.III D.II
- (2) A-I. B-II. C-III, D IV
- (3) A II B I C III, D IV
 - (4) A II, B IV, C III, D I

Options:

53622816973 .

53622816974 2

53622816975 3

53622816976 4

Question Number $\,$ 119 Question Id $\,$ 5362284356 Question Type $\,$ MCQ Option Shuffling $\,$ No $\,$ Is Question Mandatory , No

Match Last I with Last II

List I

Steepest accent hill clambing

A) Branch and bound

- List II
- (I) Keeps track of all partial paths which can be candidate for further exploration
- (II) Detects difference between current state and goal state
- (III) Discovers problem state(s) that satisfy a set of constraints.
- (IV) Considers all moves from current state and selects best move

D) Maans end analysia

(C) Constraint satisfaction.

Choose the correct answer from the options given below

- (1) A I, B IV, C III D II
- (2) A.I. B.H. C.III. D.IV
- (3) A II, B I C III. D IV
- (4) A II, B IV, C III, D I

Options :

(B)

5.1622816973 .

53622816974 2

53622816975 3

53622816976. 4

Question Number : 120 Question Id : 5362284357 Question Type : MCQ Option Shuffiling : No Is Question Mandatory No

Match Last Lwith Last II. Last I List II (A) Topological aort of DAG (I) O(Y + E)B) Kruskals MST algorithm (II) O(VE)Bellman-Ford's single source shortest C) (IIII) $\theta(V+E)$ path algorithm Floyd-Warshall's all pair shortest (IV) $\theta(V^3)$ (Ω) path algorithm Choose the correct answer from the options given below (1) ALBIII CIV DII (2)A III. B-L C IV D-H (3) A III B L C III D IV ALBIII CILDIV (4) Options:

51622816977 .

53622816978. 2

53622816979 3

53622816980. 4

Question Number : 120 Question id : 5362284357 Question Type MCQ Option Shuffling No Is Question Mandatury ' No.

Correct Marks : 2 Wrong Marks : 0

Match Last I with Last II

Last I Last II Topological sort of DAG O(V + E)A) (I) B) Kruskal s MST algorithm O(VE, (Π) Bellman-Ford's single-source shortest (C) (III) $\theta(V+E)$ path algorithm. (IV) $\theta(V^3)$ (\mathbb{D}) Floyd Warshall's all pair shortest path algorithm

Choose the correct answer from the options given below

- (1) AI, BIII CIV DII
- (2)A.III. B-I C IV D-II
- A III B I C II D IV (3)
- (4) A I B III C II D IV

Options:

53622816978 2 53622816979 3 53622816980 4 Question Number 121 Question Id 5362284358 Question Type MCQ Option Shuffling No Is Question Mandatory . No. Correct Marks 2 Wrong Marks : 0 Match Last I with Last II L_R Regular language LCF: Context free language L_{REC} Recursive language, L_{RE} Recursively enumerable language. Last. I List II Recursively Enumerable language (I) $L_{RBC}UL_{RB}$ (B) Recursive language (II) $L_{CF} \cup L_{REC}$ (C) Context Free language (III) $L_R^* \cap L_{CR}$ Choose the correct answer from the options given below АПВПІСІ A.III. B.I. C.II АІВІІ, СІІІ A.II, B.I, C.III (3)(4)Options: 53622816981 . 53622816982. 2 53622816983 3 53622816984 4 Question Number • 121 Question Id • 5362284358 Question Type • MCQ Option Shuffling • No Is Question Mandatory · No Correct Marks . 2 Wrong Marks : 0 Match List I with List II L_R Regular language. LCF- Context free language L_{REC} . Recursive language, L_{RE} Recursively enumerable language. L.st. I List II (A) Recursively Enumerable language (I) Lure ULDE (B) Recursive language (II) $L_{CF} \cup L_{RFC}$ (C) Context Free language (III) $L_R^* \cap L_{CF}$ Choose the correct answer from the options given below А-Ш В-Ш, С I (2) A.III, B.I. C.II (1) A.I. B.II, C.III (4) A-II, B-I, C-III (3)Options: 53622816981 1

Question Number: 122 Question Id : 5362284359 Question Type MCQ Option Shuffling No Is Question

Mandatory · No.

Correct Marks : 2 Wrong Marks : 0

Match List I with List II

Last I

List II

(A) Senal Line IP (SLIP)

- (I) Application layer
- (B) Border Gateway Protocol (BGP)
- (II) Transport layer
- (C) User Data Protocol (UDP)
- (III) Data Link layer
- (D) Sample Network Management Protocol
- (IV) Network layer

Choose the correct answer from the options given below

d) A.I.B.H. C.HI. D.IV.

(2) A.III, B.IV, C.II D.I

(3) A.H. B.HI. C.IV. D.I.

(4) A III B I C IV D II

Options:

53622816985 ...

53622816986 2

53622816987 3

53622816588 4

Question Number 122 Question Id 5362284359 Question Type , MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Match Last I with Last II

List I

List II

(A) Senal Line IP (SLIP)

- (I) Application layer
- (B) Border Gateway Protocol (BGP)
- (II) Transport layer
- (C) User Data Protocol (UDP)
- (III) Data Link layer
- (D) Simple Network Management Protocol
- (IV) Network layer

Choose the correct answer from the options given below

(1) A-I. B-II, C-III, D IV

(2) A.III, B.IV, C.II D-I

(3) A.H. B.HI, C.IV. D.I.

(4) A.III B.L.C.IV D.II

Options:

53622816985 .

53622816986 2

53622816987 3

Question Number 123 Question Id 5362284360 Question Type MCQ Option Shuffling , No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Match Last I with Last II

List I

t Prest Seemale

Last II

- A. Greedy Best-First Search
- I) Space complexity is O(d) where d depth of the deepest optimal solution

(B) A*

- (II) Incomplete even if the search space is finite
- C Recursive Best First Search
- III) Optimal if optimal solution is reachable; otherwise, returns the best reachable optimal solution.

(D) SMA*

(IV) Computation and space complexity is too high.

Choose the correct answer from the options given below:

(1) A II B IV, C I, D III

(2) A II, B-III, C-I, D-IV

(3) A III. B-II, C-IV, D I

(4) A III, B IV, C II, D I

Options :

53622816789 .

53622816990. 2

53622816991 3

53622816992. 4

Question Number : 123 Question id 5362284360 Question Type : MCQ Option Shuffling : No is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Match List I with List II

List I

List II

- (A) Greedy Best-First Search
- Space complex.ty is O(d) where d-depth of the deepest optimal solution

(B) A*

- (II) Incomplete even if the search space is finite
- (C) Recursive Best First Search
- (III) Optimal if optimal solution is reachable: otherwise, returns the best reachable optimal solution.

(D) SMA*

(IV) Computation and space complexity is too high,

Choose the correct answer from the options given below:

(1) A II B IV, C I, D III

(2) A II, B III, C I, D IV

(3) A III. B II. C IV. D I

(4) A III, B-IV, C-II, D-I

Options:

Question Number: 124 Question Id 5362284361 Question Type: MCQ Option Shuffling No Is Question

Mandatory ' No

Correct Marks: 2 Wrong Marks: 0

Find the lexicographic ordering of the bit strings given below based on the ordering 0 < 1

- (A) 001
- (B) 010
- (C) 011
- (D) 0001
- (E) 0101

Choose the correct answer from the options given below:

- $(1) \qquad 001 < 010 < 011 < 0001 < 0101$
- (2) 0001 < 001 < 010 < 0101 < 011
- (S) 0001 < 0101 < 001 < 010 < 011
- $(4) \quad 001 < 010 < 0001 < 0101 < 011$

Options :

53622816993 .

53622816994 2

53622816995 3

53622816996 4

Question Number 124 Question Id 5362284361 Question Type MCQ Option Shuffling 'No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Find the lexicographic ordering of the bit strings given below based on the ordering 0 < 1

- (A) 001
- (B) 010
- (C) 011
- (D) 0001
- (E) 0101

Choose the correct answer from the options given below:

- (1) 001 < 010 < 011 < 0001 < 0101
- (2) 0001 < 001 < 010 < 0101 < 011
- $(3) \qquad 0001 < 0101 < 001 < 010 < 011$
- (4) 001 < 010 < 0001 < 0101 < 011

Options:

53622816993 .

53622816994 2

53622816995 3

Question Mandato		125 Question ld	5362284362 Question	Туре	MCQ Option Shuffling	No Is Question
Correct	Marks . 2	Wrong Marks : 0				
Arraz	nge the fo	llowing types of	machine in descend	ing o	rder of complexity	
(A)	SISD					
(B)	MIMD					
(C)	SIMD					
Choo	se the cor	rect answer fro	m the options given	be.ow		
(1)	A. B. C		(2)	СВ	3. A	
(B)	B. C, A		(4)	C. A	, В	
Mandate Correct Arran (A) (B)	6997 1 6998 2 6999 3 7000 4 Number , ory . No Marks 2 1 nge the fo SISD MIMD	Wrong Marks : 0	5362284362 Question of machine in descend		MCQ Option Shuffling	No Is Question
(C)	SIMD					
Choo	se the cor	rect answer fro	m the options given	be.ow		
(1)	A. B. C		(2)	СВ	8. A	
(B)	B. C, A		(4)	C. A	, B	
Options 53622816 53622816 53622817	6997 , 6998 Z 6999 3					

Question Number , 126 Question Id , 5362284363 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Given below are different properties of 3D projections from A D Identify the correct order on the basis of property true of (i) a perspective projection only, (ii) an orthographic projection only, (iii) both orthographic and projective transformations and in neither orthographic nor projective transformation, respectively

- (A) Straight lines are mapped to straight lines.
- (B) Distances and angles are (in general) preserved
- (C) Far away objects appear the same size as closer ones.
- (D) Requires homogeneous coordinates in order for it to be encoded into a linear transformation

Choose the correct answer from the options given below

(1) D C B A

(2) B. C D A

(3) D C, A, B

(4) C, D B. A

Options:

53622817001 .

53622817002 2

53622817003 3

53622817004 4

Question Number 126 Question Id 5362284363 Question Type MCQ Option Shuffling No Is Question Mandatory; No

Correct Marks: 2 Wrong Marks: 0

Given below are different properties of 3D projections from A D. Identify the correct order on the basis of property true of (i) a perspective projection only, (ii) an orthographic projection only, (iii) both orthographic and projective transformations and (iv) neither orthographic nor projective transformation, respectively

- (A) Straight lines are mapped to straight lines.
- (B) Distances and angles are (in general, preserved.)
- (C) Far away objects appear the same size as closer ones.
- (D) Requires homogeneous coordinates in order for it to be encoded into a linear transformation

Choose the correct answer from the options given below

D. C. B. A.

(2) B, C D. A

(3) D C, A, B

(4) C, D B. A

Options:

53622817001 1

53622817002 2

53622817003. 3

53622817004 4

Question Number , 127 Question Id , 5362284364 Question Type , MCQ Option Shuffling , No Is Question Mandatory ; No

Correct Marks: 2 Wrong Marks: 0

Arrange the following types of Cohesian from best to worst type

- (A) Logical Cohesion
- (B) Sequential Cohesion
- (C) Communication Cohesion
- (D) Temporal Cohesion
- (E) Procedural Cohesion

Choose the correct answer from the options given below

(2)
$$A \rightarrow E \rightarrow D \rightarrow C \rightarrow B$$

(3)
$$B \rightarrow E \rightarrow C \rightarrow D \rightarrow A$$

(4)
$$B \Rightarrow C \Rightarrow E \Rightarrow D \Rightarrow A$$

Options:

53622817005 .

53622817006 2

53622817007 3

53622817008 4

Question Number $^\circ$ 127 Question Id = 5362284364 Question Type = MCQ Option Shuffling = No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Arrange the following types of Cohesion from best to worst type.

- (A) Logical Cohesion
- (B) Sequential Cohesion
- (C) Communication Cohesion
- (D) Temporal Cohesson
- (E) Procedural Cohesion

Choose the correct answer from the options given below:

(1)
$$A \rightarrow D \rightarrow E \rightarrow C \rightarrow B$$

(2)
$$A \rightarrow E \rightarrow D \rightarrow C \rightarrow B$$

(3)
$$B \rightarrow E \rightarrow C \rightarrow D \rightarrow A$$

Options:

53622817005 .

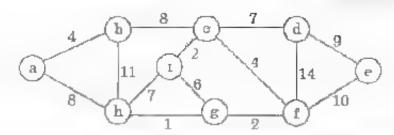
53622817006, 2

53622817007 3

53622817008. 4

Question Number 128 Question Id 5362284365 Question Type MCQ Option Shuffling $^{\prime}$ No Is Question Mandatory No

Consider the undirected graph below;



Using Prim's algorithm to construct a minimum spanning tree starting with node a, which one of the following sequences of edges represents a possible order in which the edges would be added to construct the minimum spanning tree?

- (a,b), (a,h), (g h), (f,g), (c,f), (c,t), (c,d), (d,e)
- (2) (a.b, (b,h), (g,h), (g1), (c1), (cf), (cd), (de)
- (3) (a,b), (b,c), (c,1), (c,f), (f,g), (g,b), (c,d), (d,e)
- (4) (a,b), (g,h), (g,f), (c,f), (c,i), (f,e), (b,c), (d,e)

Options:

53622817009 .

536228170.0 2

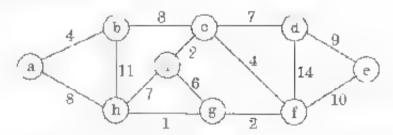
536228170... 3

53622817012, 4

Question Number 128 Question Id 5362284365 Question Type: MCQ Option Shuffling . No Is Question Mandatory . No

Correct Marks , 2 Wrong Marks : 0

Consider the undirected graph below:



Using Prims algorithm to construct a minimum spanning tree starting with node at which one of the following sequences of edges represents a possible order in which the edges would be added to construct the minimum spanning tree?

- (1) (a.b), (a.b), (g h), (f,g), (c.f), (c,t), (c,d), (d,e)
- (2) (a,b, (b,h), (g,h), (g,1), (c,1), (c,f), (c,d), (d,e)
- (S) (a.b), (b,c), (c,i) (c,f), (f,g), (g,h), (c d) (d,e)
- (4) (a,b), (g,h), (g,f), (c,f), (c,i). (f,e) (b,c), (d,e)

Options:

53622817009 .

536228170 0 2

Question Number : 129 Question Id 5362284366 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Consider the following regular expressions

(a)
$$\tau = a(b+a)^*$$

$$(b) s = a(a+b)^+$$

(c)
$$t = aa^*b$$

Choose the correct answer from the options given below based on the relation between the languages generated by the regular expressions above:

(1)
$$L(r) \subset L(s) \subset L(t)$$

(2)
$$L(r) \supseteq L(s) \supseteq L(t)$$

(3)
$$L(r) \supset L(t) \supset L(s)$$

$$(4) \quad I(s) \supseteq L(t) \supseteq I(r)$$

Options:

536228170.3 .

536228170.4 2

536228170 5 3

536228170.6 4

Question Number 129 Question Id 5362284366 Question Type: MCQ Option Shuffling No Is Question Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Consider the following regular expressions

(a)
$$r = a(b+a)^*$$

(b)
$$s = a(a + b)^+$$

(c)
$$t = aa^*b$$

Choose the correct answer from the options given below based on the relation between the languages generated by the regular expressions above:

(1)
$$L(r) \subset L(s) \subset L(t)$$

(2)
$$L(\tau) \supset L(s) \supset L(t)$$

(3)
$$L(r) \supseteq I(t) \supseteq L(s)$$

(4)
$$I(s) \supseteq L(t) \supseteq I(r,$$

Options:

536228170.3 .

536228170.4 2

53622817015 3

536228170.6.4

Question Number $\,$ 130 Question Id $\,$ 5362284367 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory $\,$; No

Given below are two statements

Statement I: \hat{n} divides n^5 in whenever n is a nonnegative integer.

Statement II 6 d.vides n^3 n whenever n is a nonnegative integer

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect.
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

Options:

53622817017 1

536228170 8 2

536228170.9 3

53622817020 4

Question Number 130 Question Id 5362284367 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks 2 Wrong Marks . 0

Given below are two statements

Statement I: 5 divides n^5 n whenever n is a nonnegative integer.

Statement II 6 divides n^3 n whenever n is a nonnegative integer

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
 - (4) Statement I is incorrect but Statement II is correct

Options:

536228170.7 .

53622817018. 2

536228170.9 3

53622817020, 4

Question Number : 131 Question Id : 5362284368 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Given below are two statements

Statement I Hardwired control unit can be optimized to produce fast mode of operation.

Statement II Indirect addressing mode needs two memory reference to fetch the operand. In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- 2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817021 .

53622817022, 2

53622817023 3

53622817024 4

Question Number . 131 Question Id . 5362284368 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks , 2 Wrong Marks ; 0

Given below are two statements

Statement I Hardwired control unit can be optimized to produce fast mode of operation.

Statement II Indirect addressing mode needs two memory reference to fetch the operand.

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement Π are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817021 ,

53622817022 2

53622817023 3

53622817024 4

Question Number 132 Question Id., 5362284369 Question Type MCQ Option Shuffling., No Is Question Mandatory: No

Given below are two statements.

State nent I Bezier curves are curves that interpolate all of their control points

Statement II A cubic bezier rurve has four control points

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817025.

53622817026 2

53622817027 3

53622817028.4

Question Number: 132 Question Id. 5362284369 Question Type: MCQ Option Shuffling: No la Question

Mandatory : No

Correct Marks , 2 Wrong Marks ; 0

Given below are two statements.

Statement I Bezier curves are curves that interpolate all of their control points

Statement II: A cubic bezier curve has four control points

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817025 1

53622817026 2

53622817027 3

53622817028 4

Question Number $\,$ 133 Question Id , 5362284370 Question Type $\,$ MCQ Option Shuffling , No Is Question Mandatory : No

Given below are two statements.

If two variables V_1 and V_2 are used for clustering, then consider the following statements for k means clustering with k=3:

Statement I If V_1 and V_2 have correlation of 1 the cluster centroid will be in straight line

Statement II If V_1 and V_2 have correlation of 0 the cluster centroid will be in straight line

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817029 ...

53622817030. 2

53622817031 3

53622817032 4

Question Number $\,$ 133 Question Id $\,$ 5362284370 Question Type $\,$ MCQ Option Shuffling $^{\circ}$ No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements

If two variables V_1 and V_2 are used for clustering, then consider the following statements for κ means clustering with $\kappa = 3$.

Statement I If V_1 and V_2 have correlation of 1 the cluster centroid will be in straight line.

Statement II If V_1 and V_2 have correlation of 0 the cluster centroid will be in straight line

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817029 .

53622817030 2

53622817031 3

53622817032 4

Question Number 134 Question Id 5362284371 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks * 2 Wrong Marks : 0

Assuming that the system fall fork () never fails, consider the following C programs P1 and P2 executed on a UNIX / Linux system

```
/* P1 */
int main() {
    fork );
    fork();
    fork();
    fork();
    printf("Happy\n"),
    fork(,
    printf("Happy\n")
}
```

Statement I P1 displays "Happy" 8 times

Statement II P2 displays "Happy" 12 times.

In the light of the above statements, choose the correct answer from the options given below

- Both Statement I and Statement Π are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true,

Options:

53622817033, 1 53622817034, 2 53622817035, 3 53622817036, 4

Question Number: 134 Question Id. 5362284371 Question Type MCQ Option Shuffling. No Is Question

Mandatory ' No.

Assuming that the system rall fork () never fails consider the following C programs P1 and P2 executed on a UNIX / Linux system

```
/* P1 */
                                              /* P2 */
ınt
    main(){
                                              int main (, {
     fork , );
                                                   fork (),
                                                   printf('Happy\n''),
     fork ( ):
     fork ();
                                                   fork()
     printf("Happy\n");
                                                   printf("Happy\n"),
1
                                                   fork( ...
                                                   printf("Happy\n")
```

Statement I P1 displays "Happy" 8 times

Statement II P2 displays "Happy" 12 times.

In the light of the above statements choose the correct answer from the options given below

- Both Statement I and Statement II are true
- (2) Buth Statement I and Statement II are false
- (3) Statement I is currect but Statement II is false
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817033 . 53622817034 . 53622817035 3 53622817036 4

Question Number 135 Question Id 5362284372 Question Type MCQ Option Shuffling No Is Question Mandatory No

Given below are two statements:

- Statement I Quality control involves the series of inspections, reviews and tests used throughout the software process, to ensure each work product meets the requirements placed upon it
- Statement H. Quality assurance consists of auditing and reporting functions of management

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817037 1

53622817038. 2

53622817039 3

53622817040 4

Question Number : 135 Question Id -5362284372 Question Type -MCQ Option Shuffling : No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements:

- Statement I Quality control involves the series of inspections, reviews and tests used throughout the software process, to ensure each work product meets the requirements placed upon it
- Statement II Quality assurance consists of auditing and reporting functions of management

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817037 .

53622817038 2

53622817039 3

53622817040 4

Question Number 136 Question Id 5362284373 Question Type MCQ Option Shuffling No is Question Mandatory . No

Let G be a simple undirected graph T_D be a DFS tree on G, and T_B be the BFS tree on G Consider the following statements.

Statement I. No edge of G is a cross with respect to T_0

Statement II For every edge (u:) of G, if u is at depth and v is at depth f in T_B then f: f = 1

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- ,3) Statement I is correct but Statement II is false
- Statement I is incorrect but Statement II is true.

Options:

53622817041 1

53622817042 2

53622817043 3

53622817044 4

Question Number $^\circ$ 136 Question id $^\circ$ 5362284373 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

Let G be a simple undirected graph T_D be a DFS tree on G and T_B be the BFS tree on G Consider the following statements.

Statement I. No edge of G is a cross with respect to T_D

Statement II For every edge (u:) of G, if u is at depth and v is at depth f in f then f if f is a depth f in f.

In the light of the above statements, choose the correct answer from the options given below

- Both Statement I and Statement II are true
- 2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- Statement I is incorrect but Statement II is true.

Options:

53622817041 .

53622817042 2

53622817043 3

53622817044 4

Question Number 137 Question Id 5362284374 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Given below are two statements.

- Statement I The problem "Is $L_1 \wedge L_2 = \phi$?" is undecidable for context sensitive languages L_1 and L_2
- Statement II. The problem "Is WeL^{γ} is decidable for context sensitive language L, (where W is a string)

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817045 .

53622817046 2

53622817047 3

53622817648 4

Question Number $\,$ 137 Question Id $\,$ 5362284374 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Given below are two statements.

- Statement I The problem "Is $L_1 \wedge L_2 = \phi$?" is undecidable for context sensitive languages L_1 and L_2
- Statement II. The problem "Is WeL^{γ} is decidable for context sensitive language L. (where W is a string)

In the light of the above statements choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817045 .

53622817046 2

53622817047 3

53622817048. 4

Question Number , 138 Question Id , 5362284375 Question Type , MCQ Option Shuffling , No Ia Question Mandatory : No

Given below are two statements

- Statement I The laws of nature put two fundamental limits on data rate of a channe. The H.Nvq.nst limit restricts the number of independent samples per second to twice the band width in a Noiseless channel
- Statement II Shaunon's major result about no sed channel is that maximum data rate of a channel whose band width is H Hz, and whose signal to noise ratio is S/N is given by:

Maximum number of bits/sec $H \log_2(1 + \frac{s}{N})$

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is fa.se
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817049 ...

53622817050 2

53622817051 3

53622817052 4

Question Number * 138 Question Id 5362284375 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements

- Statement I The laws of nature put two fundamental limits on data rate of a channe. The H.Nvq.nst limit restricts the number of independent samples per second to twice the band width in a Noiseless channel
- Statement II Shannon's major result about no sed channel is that maximum data rate of a channel whose band width is H Hz, and whose signal to noise ratio is S/N is given by:

Maximum number of bits/sec $H \log_2(1 + \frac{S}{n})$

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is fa.se
- (4) Statement I is incorrect but Statement II is true.

Options:

53622817049 .

53622817050 2

53622817051 3

Mandatary ' No.

Correct Marks: 2 Wrong Marks: 0

Given below are two statements:

Statement I In Ceasar Cipher each letter of Plain text is replaced by another letter for encryption.

Statement II Diffie Hellman algorithm is used for exchange of secret key

In the light of the above statements, choose the correct answer from the options given below

- Both Statement I and Statement Π are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817053 .

53622817054-2

53622817055 3

53622817056 4

Question Number 139 Question Id 5362284376 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Correct Marks . 2 Wrong Marks : 0

Given below are two statements:

Statement I In Ceasar Cipher each letter of Plain text is replaced by another letter for encryption.

Statement II Diffie Hellman algorithm is used for exchange of secret key

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817053 .

53622817054 2

53622817055 3

53622817056. 4

Question Number , 140 Question Id 5362284377 Question Type MCQ Option Shuffling No Is Question Mandatory : No

Given below are two statements

- Statement I A genetic algorithm is a stochastic hill climbing search in which a large population of states is maintained.
- Statement II In nondeterministic environments, agents can apply AND OR search to generate contingent plans that reach the goal regardless of which outcomes occur during execution.

In the light of the above statements, choose the Correct answer from the options given below.

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817057 .

53622817058. 2

53622817059 3

53622817060, 4

Question Number : 140 Question id : 5362284377 Question Type : MCQ Option Shuffiling : No is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements:

- Statement I A genetic algorithm is a stochastic hill-chimbing search in which a large population of states is maintained
- Statement II In nondeterministic environments, agents can apply AND OR search to generate contingent plans that reach the goal regardless of which outcomes occur during execution.

In the light of the above statements choose the Correct answer from the options given below

- (1) Both Statement I and Statement II are true
- 62 Both Statement I and Statement II are false
- 3 Statement I is correct but Statement II is false.
- 34 Statement I is incorrect but Statement II is true

Options :

53622817057 1

53622817058. 2

5.1622817059 3

53622817660. 4

Sub Section Number:

7

Sub-Section Id:

536228171

Question Shuffling Allowed:

Yes

Question Id., 5362284378 Question Type: COMPREHENSION Sub-Question Shuffling Allowed. Yes Group Comprehension Questions: No

Question Numbers: (141 to 145)

Question Label Comprehension

Questions 91.95 concern a disk with a sector size of 512 bytes. 2000 tracks per surface, 50 sectors per track, five double sided platters, and average seek time of 10 milliseconds

Sub questions

Question Number 141 Question Id 5362284379 Question Type MCQ Option Shuffling No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

If T is the capacity of a track in bytes, and S is the capacity of each surface in bytes, then (T,S) = -1.

(1) (50 K, 50000 K)

(2) (25 K, 25000 K)

(3) (25 K, 50000 K)

(4) (40 K, 36000 K)

Options:

53622817061 .

53622817062, 2

53622817063 3

53622817064 4

Question Number : 142 Question Id : 5362284380 Question Type : MCQ Option Shuffiling : No Is Question Mandatory : No

Correct Marks: 2 Wrong Marks: 0

What is the capacity of the disk, in bytes?

(1) 25.000 K

(2) 500,000 K

(3) 2p0,000 K

(4) 50 000 K

Options:

53622817065 .

53622817066, 2

53622817067 3

53622817068 4

Question Number : 143 Question Id 5362284381 Question Type : MCQ Option Shuffling No Is Question Mandatory : No

Given below are two statements

Statement I The disk has a total number of 2000 cylinders

Statement IL 61200 bytes is not a valid block size for the disk

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- 4) Statement I is incorrect but Statement II is true

Options:

53622817069 1

53622817070 2

53622817071 3

53622817072 4

Question Number 144 Question Id 5362284382 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks • 2 Wrong Marks • 0

If the disk platters rotate at 5400 rpin revolutions per minute) then approximately what is the maximum rotational delay?

0 011 seconds

(2) 0 13 seconds

(3) 0 0011 seconds

(4) 1.1 seconds

Options:

53622817073 .

53622817074 2

53622817075 3

53622817076 4

Question Number $^\circ$ 145 Question Id $^\circ$ 5362284383 Question Type $^\circ$ MCQ Option Shuffling $^\circ$ No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

If one track of data can be transferred per revolution, then what is the data transfer rate?

(1) 2.850 KBytes/second

(2) 4,500 KBytes/second

5 700 KBytes/second

(4) 2,250 KBytes second

Options:

53622817077 .

53622817078 2

53622817079 3

53622817080 4

Question Id 5362284378 Question Type: COMPRERENSION Sub Question Shuffling Allowed Yes Group Comprehension Questions: No

Question Numbers : (141 to 145)

Question Label Comprehension

Questions 91.95 concern a disk with a sector size of 512 bytes 2000 tracks per surface, 50 sectors per track five double sided platters, and average seek time of 10 milliseconds

Sub questions

Question Number , 141 Question Id , 5362284379 Question Type , MCQ Option Shuffling , No Is Question Mandatory : No

Correct Marks * 2 Wrong Marks : 0

If T is the capacity of a track in bytes, and S is the capacity of each surface in bytes then (T,S)=

(1) (50 K, 50000 K)

(2) (25 K. 25000 K)

(3) (25 K, 50000 K)

(4) (40 K, 36000 K)

Options:

53622817061 .

51622817062 2

53622817063 3

53622817064 4

Question Number $\,$ 142 Question Id $\,$ 5362284380 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory , No

Correct Marks: 2 Wrong Marks: 0

What is the capacity of the disk, in bytes?

(1) 25,000 K

(2) 500,000 K

(3) 2p0,000 K

(4) 50 000 K

Options:

53622817065 .

53622817066 2

53622817067 3

53622817068 4

Question Number $\,$ 143 Question Id $\,$ 5362284381 Question Type $\,$ MCQ Option Shuffling $\,$ No Is Question Mandatory . No

Grven below	are two statements
Statement I	The disk has a total number of 2000 cylinders

Statement II. 61200 bytes is not a valid block size for the disk

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817069 1

53622817070 2

53622817071 3

53622817072 4

Question Number 144 Question Id 5362284382 Question Type MCQ Option Shuffling No Is Question Mandatory . No

Correct Marks • 2 Wrong Marks • 0

If the disk platters rotate at 5400 rpin revolutions per minute) then approximately what is the maximum rotational delay?

0 011 seconds

(2) 0 13 seconds

(3) 0 0011 seconds

(4) 1.1 seconds

Options:

53622817073 ,

53622817074 2

53622817075 3

53622817076 4

Question Number $^\circ$ 145 Question Id = 5362284383 Question Type = MCQ Option Shuffling = No Is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

If one track of data can be transferred per revolution, then what is the data transfer rate?

2.850 KBytes/second.

(2) 4,500 KBytes/second

(3) 5 700 KBytes/second

(4) 2,250 KBytes second

Options:

53622817077 .

53622817078 2

53622817079 3

53622817080 4

Sub-Section Number:

3

Sub-Section 1d:

536228172

Question Shuffling Allowed:

Yes

Question Id 5362284384 Question Type: COMPREHENSION Sub Question Shuffling Allowed Yes Group

Comprehension Questions: No Question Numbers: (146 to 150) Question Label Comprehension

Consider the following table structures related to a university for Q96 to Q100

EMPLOYEE

NAME VARCHAR (30) NOT NULL. EID VARCHAR (10) NOT NULL. DEPTNO INT (5) NOT NULL.

HODEID VARCHAR (10),

SALARY INT (10).

PRIMARY KEY (EID)

FOREIGN KEY (HODEID) REFRENCES EMPLOYEE (EID

FOREIGN KEY (DEPTNO' REFRENCES DEPARTMENT (DID)

DEPARTMENT

DID INT (5) NOT NULL.

DNAME VARCHAR (80) NOT NULL.

HODID VARCHAR (10) NOT NULL.

HODNAME VARCHAR (30)

PRIMARY KEY (DID).

UNIQUE (DNAME)

FOREIGN KEY (HODID) REFERENCES EMPLOYEE , EID.,

PROJECT WORK.

EMPID VARCHAR (10) NOT NULL, PROJNO ENT (5) NOT NULL. PROJECTLOC VARCHAR (30) NOT NULL.

PRIMARY KEY (EMPID, PROJNO).

FOREIGN KEY (EMPID) REFERENCES EMPLOYEE EID

Sub questions

Question Number 146 Question Id 5362284385 Question Type MCQ Option Shuffling No Is Question Mandatory . No

On the basis of above given table structures, retrieve the distinct employee ID (EMPID) of all employees of university who are working on project No.20, 30 and 40

- (1) SELECT EMPID FROM PROJECTWORK WHERE PROJNO: (20.30 40)
- (2) SELECT EMPID FROM PROJECTWORK WHERE PROJNO IN (20.30.40):
- (S) SELECT DISTINCT EMPID FROM PROJECTWORK WHERE PROJNO IN (20.30 40):
- (4) SELECT DISTINCT EMPID FROM PROJECTWORK WHERE PROJNO- 20.30 40:

Options :

53622817081 .

53622817082 2

53622817083 3

53622817084 4

Question Number : 147 Question Id : 5362284386 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements to find the sum of salaries of all employees of the English department as well as the maximum, minimum and average salary in English department

STATEMENT I SELECT SUM (SALARY) MAX SALARY), MIN SALARY).

AVG (SALARY) FROM EMPLOYEE, DEPARTMENT

WHERE DEPTNO-DID

AND DNAME= ENGLISH.

STATEMENT II SELECT SUM (SALARY) MAX 5ALARY), MIN (SALARY),

AVG (SALARY) FROM EMPLOYEE DEPARTMENT

WHERE DNAME: ENGLISH:

In the light of the above statements, choose the correct answer from the options given below

- Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817085. .

53622817086 2

51622817087 3

Question Number 148 Question Id 5362284387 Question Type MCQ Option Shuffling , No is Question Mandatory , No

Correct Marks : 2 Wrong Marks : 0

Which of the following query queries return the employees ID and name of employees whose salary is greater than the salary of all employees in department number 20 of inversity Order result by employee ID (refer table structures given above).

(A) SELECT EID. NAME

FROM EMPLOYEE

WHERE SALARY - SELECT SALARY FROM EMPLOYEE WHERE DEPTNO: 20) ORDER BY EID.

(B) SELECT EID, NAME
FROM EMPLOYEE WHERE SALARY SELECT SALARY FROM EMPLOYEE
WHERE DEPTNO: 20)

(C) SELECT EID. NAME

FROM EMPLOYEE

WHERE SALARY>ALL(SELECT SALARY FROM EMPLOYEE WHERE DEPTNO=20)

ORDER BY EID

Choose the correct answer from the options given below:

- (1) A) and (B) only
- (2) A) and (C) only
- $(S_i (B) \text{ only})$
- (4) (C) only

Options:

53622817089 .

53622817090. 2

53622817091 3

53622817092 4

Question Number : 149 Question Id : 5362284388 Question Type : MCQ Option Shuffling : No Is Question Mandatory No

In reference to the above given table structures, which of the following query queries will drop the SALARY column from EMPLOYEE' table?

- (A) ALTER TABLE EMPLOYEE DROP SALARY CASCADE.
- (B) ALTER TABLE EMPLOYEE DROP SALARY RESTRICT
- (C) ALTER EMPLOYEE DROP SALARY,

Choose the correct answer from the options given below:

- (1) (A) and (B) only
- (2) (A) and (C) only
- (3) (B) and (C) only
- (4) (A) only

Options:

53622817093 .

53622817094. 2

53622817095 3

53622817096 4

Refer table, structures given above University decided to give all employees in the SCIENCE department a 20% rise in salary. Which of the following query—queries will compute the above results?

(A) UPDATE EMPLOYEE

SET SALARY SALARY+1.20

WHERE DEPT NO IN (SELECT DID FROM DEPARTMENT WHERE DNAME= SCIENCE")

(B) UPDATE TABLE EMPLOYEE

SET SALARY = SALARY * 1 20

WHERE DNAME-'SCIENCE.

(C) ALTER TABLE EMPLOYEE

SET SALARY SALARY 1 20

WHERE DEPTNO IN SELECT DNAME FROM DEPARTMENT WHERE DNAME SCIENCE')

Choose the correct answer from the options given below.

- (1) (A) and (B) only
- (2) (A) only
- (3) (B) and (C) only
- (4) (C) only

Options :

53622817097 1

53622817098. 2

53622817099 3

53622817 00 4

Question Id • 5362284384 Question Type: COMPREHENSION Sub Question Shuffling Allowed • Yes Group Comprehension Questions: No

Question Numbers : (146 to 150)

Question Label Comprehension

Consider the following table structures related to a university for Q96 to Q100

EMPLOYEE

NAME VARCHAR (30) NOT NULL.

EID VARCHAR (10) NOT NULL.

DEPTNO INT (5) NOT NULL.

HODEID VARCHAR (10),

SALARY INT (10),

PRIMARY KEY (EID)

FOREIGN KEY (HODEID) REFRENCES EMPLOYEE (EID

FOREIGN KEY (DEPTNO: REFRENCES DEPARTMENT (DID)

DEPARTMENT

DID INT (5) NOT NULL.

DNAME VARCHAR (30) NOT NULL.

HODID VARCHAR (10) NOT NULL.

HODNAME VARCHAR (30)

PRIMARY KEY (DID).

UNIQUE (DNAME),

FOREIGN KEY (HODID) REFERENCES EMPLOYEE EID

PROJECT WORK.

EMPID VARCHAR (10) NOT NULL, PROJNO INT (5) NOT NULL, PROJECTLOC VARCHAR (30) NOT NULL,

PRIMARY KEY (EMPID, PROJNO).

FOREIGN KEY (EMPID) REFERENCES EMPLOYEF (EID

Sub questions

Question Number · 146 Question Id · 5362284385 Question Type · MCQ Option Shuffling · No Is Question Mandatory No

On the basis of above given table structures, retrieve the distinct employee ID (EMPID) of all employees of university who are working on project No.20, 30 and 40.

- (1) SELECT EMPID PROM PROJECTWORK WHERE PROJNO=(20,30,40);
- (2) SELECT EMPID FROM PROJECTWORK WHERE PROJNO IN (20.80.40);
- (S) SELECT DISTINCT EMPID FROM PROJECTWORK WHERE PROJNO IN (20,30,40):
- (4) SELECT DISTINCT EMPID FROM PROJECTWORK WHERE PROJNO=20,30,40:

Options:

53622817081.1

53622817082.2

53622817083, 3

53622817084. 4

Question Number: 147 Question Id: 5362284386 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0

Given below are two statements to find the sum of salaries of all employees of the English department as well as the maximum, minimum and average salary in English department.

STATEMENT I: SELECT SUM (SALARY), MAX (SALARY), MIN (SALARY),

AVG (SALARY) FROM EMPLOYEE, DEPARTMENT

WHERE DEPTNO=DID

AND DNAME='ENGLISH':

STATEMENT II: SELECT SUM (SALARY), MAX (SALARY), MIN (SALARY),

AVG (SALARY) FROM EMPLOYEE, DEPARTMENT

WHERE DNAME=ENGLISH:

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options:

53622817085. 1

53622817086, Z

53622817087.3



Question Number: 148 Question Id: 5362284387 Question Type: MCQ Option Shuffling: No is Question

Mandatory : No

Correct Marks: 2 Wrong Marks: 0

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Which of the following query/queries return the employee ID and name of employees whose salary is greater than the salary of all employees in department number 20 of university. Order result by employee ID (refer table structures given above).

(A) SELECT EID, NAME

FROM EMPLOYEE

WHERE SALARY>(SELECT SALARY FROM EMPLOYEE WHERE DEPTNO=20)

ORDER BY EID;

(B) SELECT EID, NAME

FROM EMPLOYEE WHERE SALARY>(SELECT SALARY FROM EMPLOYEE WHERE DEPTNO=20):

(C) SELECT EID, NAME

FROM EMPLOYEE

WHERE SALARY>ALL(SELECT SALARY FROM EMPLOYEE WHERE DEPTNO=20)

ORDER BY EID

Choose the correct answer from the options given below:

(1) (A) and (B) only

- (2) (A) and (C) only
- (3) (B) only
- (4) (C) only

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Options:

53622817089_1

53622817090. 2

53622817091.3

53622817092.4

Question Number: 149 Question Id: 5362284388 Question Type: MCQ Option Shuffling: No Is Question

Mandatory : No

In reference to the above given table structures, which of the following query/queries will drop the 'SALARY' column from EMPLOYEE' table?

- (A) ALTER TABLE EMPLOYEE DROP SALARY CASCADE:
- (B) ALTER TABLE EMPLOYEE DROP SALARY RESTRICT:
- (C) ALTER EMPLOYEE DROP SALARY;

Choose the correct answer from the options given below:

- (1) (A) and (B) only
- (2) (A) and (C) only
- (3) (B) and (C) only
- (4) (A) only

Options :

53622817093.1

53622817094. 2

53622817095.3

53622817096, 4

Question Number: 150 Question Id: 5362284389 Question Type: MCQ Option Shuffling: No Is Question

Mandatory: No

Correct Marks: 2 Wrong Marks: 0



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Refer table, structures given above. University decided to give all employees in the 'SCIENCE' department a 20% rise in salary. Which of the following query / queries will compute the above results?

(A) UPDATE EMPLOYEE

SET SALARY = SALARY * 1.20

WHERE DEPT NO. IN (SELECT DID FROM DEPARTMENT WHERE DNAME='SCIENCE'):

(B) UPDATE TABLE EMPLOYEE

SET SALARY = SALARY *1.20

WHERE DNAME=SCIENCE:

(C) ALTER TABLE EMPLOYEE

SET SALARY=SALARY*1.20

WHERE DEPTNO. IN (SELECT DNAME FROM DEPARTMENT WHERE DNAME ='SCIENCE')

Choose the correct answer from the options given below:

- (1) (A) and (B) only
- (2) (A) only
- (3) (B) and (C) only
- (4) (C) only

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Options:

53622817097.1

53622817098, 2

53622817099.3